

Phe Ile Ala Leu Lys Ser Val Leu Gly Phe Val Leu Xaa Ala Leu Ala
 145 150 155 160

Gly Gly Arg Gly Leu Leu His Thr Xaa Pro Xaa Xaa Thr Xaa Pro Gln
 165 170 175

Asn Ser Xaa Pro Gly Ser Ala Cys His Ser Arg Ala Glu Thr Xaa Gly
 180 185 190

Ile Gln Pro Gly
 195

<210> 1781

<211> 62

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (22)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (52)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1781

His Ile Ile Ser Ala His Val Ser Phe Thr Arg Lys Leu Ile Leu Tyr
 1 5 10 15

Ser Asn Thr Trp Gln Xaa Ala Gly Ser Arg Ala Leu Arg Val Thr Leu
 20 25 30

Ala Asp Gln Ser Pro Ile Pro Pro Phe Trp Val Val Gly Ser Leu Phe
 35 40 45

Cys Pro Arg Xaa Ala Glu Ala Ser Glu Ser Leu Ser Val Pro
 50 55 60

<210> 1782

<211> 577

<212> PRT

<213> Homo sapiens

<400> 1782

Met Tyr Leu Leu Glu Gln Ile Asp Met His Gly Phe Gly Gly Thr Ala
 1 5 10 15

Ala Thr Ser Pro Leu Thr Ala Val Phe Ser Leu Ser Arg Ser Leu Leu
 20 25 30

Ala Ala Ala Leu Leu Tyr Gly Phe Cys Leu Gly Ala Ile Lys Thr Pro
 35 40 45

Trp Pro Glu Gln His Val Pro Val Leu Phe Ser Val Phe Cys Gly Leu
 50 55 60
 Leu Val Ala Leu Ser Tyr His Leu Ser Arg Gln Ser Ser Asp Pro Thr
 65 70 75 80
 Val Leu Trp Ser Leu Ile Arg Ser Lys Leu Phe Pro Glu Leu Glu Glu
 85 90 95
 Arg Ser Leu Glu Thr Ala Arg Ala Glu Pro Pro Asp Pro Leu Pro Asp
 100 105 110
 Lys Met Arg Gln Ser Val Arg Glu Val Leu His Ser Asp Leu Val Met
 115 120 125
 Cys Val Val Ile Ala Val Leu Thr Phe Ala Ile Ser Ala Ser Thr Val
 130 135 140
 Phe Ile Ala Leu Lys Ser Val Leu Gly Phe Val Leu Tyr Ala Leu Ala
 145 150 155 160
 Gly Ala Val Gly Phe Phe Thr His Tyr Leu Leu Pro Gln Leu Arg Lys
 165 170 175
 Gln Leu Pro Trp Phe Cys Leu Ser Gln Pro Val Leu Lys Pro Leu Glu
 180 185 190
 Tyr Ser Gln Tyr Glu Val Arg Gly Ala Ala Gln Val Met Trp Phe Glu
 195 200 205
 Lys Leu Tyr Ala Gly Leu Gln Cys Val Glu Lys Tyr Leu Ile Tyr Pro
 210 215 220
 Ala Val Val Leu Asn Ala Leu Thr Val Asp Ala His Thr Val Val Ser
 225 230 235 240
 His Pro Asp Lys Tyr Cys Phe Tyr Cys Arg Ala Leu Leu Met Thr Val
 245 250 255
 Ala Gly Leu Lys Leu Leu Arg Ser Ala Phe Cys Cys Pro Pro Gln Gln
 260 265 270
 Tyr Leu Thr Leu Ala Phe Thr Val Leu Leu Phe His Phe Asp Tyr Pro
 275 280 285
 Arg Leu Ser Gln Gly Phe Leu Leu Asp Tyr Phe Leu Met Ser Leu Leu
 290 295 300
 Cys Ser Lys Leu Trp Asp Leu Leu Tyr Lys Leu Arg Phe Val Leu Thr
 305 310 315 320
 Tyr Ile Ala Pro Trp Gln Ile Thr Trp Gly Ser Ala Phe His Ala Phe
 325 330 335
 Ala Gln Pro Phe Ala Val Pro His Ser Ala Met Leu Phe Val Gln Ala
 340 345 350
 Leu Leu Ser Gly Leu Phe Ser Thr Pro Leu Asn Pro Leu Leu Gly Ser
 355 360 365

Ala Val Phe Ile Met Ser Tyr Ala Arg Pro Leu Lys Phe Trp Glu Arg
 370 375 380
 Asp Tyr Asn Thr Lys Arg Val Asp His Ser Asn Thr Arg Leu Val Thr
 385 390 395 400
 Gln Leu Asp Arg Asn Pro Gly Ala Asp Asp Asn Asn Leu Asn Ser Ile
 405 410 415
 Phe Tyr Glu His Leu Thr Arg Ser Leu Gln His Thr Leu Cys Gly Asp
 420 425 430
 Leu Val Leu Gly Arg Trp Gly Asn Tyr Gly Pro Gly Asp Cys Phe Val
 435 440 445
 Leu Ala Ser Asp Tyr Leu Asn Ala Leu Val His Leu Ile Glu Val Gly
 450 455 460
 Asn Gly Leu Val Thr Phe Gln Leu Arg Gly Leu Glu Phe Arg Gly Thr
 465 470 475 480
 Tyr Cys Gln Gln Arg Glu Val Glu Ala Ile Thr Glu Gly Val Glu Glu
 485 490 495
 Asp Glu Gly Cys Cys Cys Cys Glu Pro Gly His Leu Pro Arg Val Leu
 500 505 510
 Ser Phe Asn Ala Ala Phe Gly Gln Arg Trp Leu Ala Trp Glu Val Thr
 515 520 525
 Ala Ser Lys Tyr Val Leu Glu Gly Tyr Ser Ile Ser Asp Asn Asn Ala
 530 535 540
 Ala Ser Met Leu Gln Val Phe Asp Leu Arg Lys Ile Leu Ile Thr Tyr
 545 550 555 560
 Tyr Val Lys Val Arg Trp Ala Gly Val Ala Gly Gln Gln Gly Pro Cys
 565 570 575

Gly

<210> 1783

<211> 177

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (145)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (175)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1783

Met Lys Leu Leu Leu Leu His Pro Ala Phe Gln Ser Cys Leu Leu Leu
 1 5 10 15

Thr Leu Leu Gly Leu Trp Arg Thr Thr Pro Glu Ala His Ala Ser Ser
 20 25 30

Pro Gly Ala Pro Ala Ile Ser Ala Ala Ser Phe Leu Gln Asp Leu Ile
 35 40 45

His Arg Tyr Gly Glu Gly Asp Ser Leu Thr Leu Gln Gln Leu Lys Ala
 50 55 60

Leu Leu Asn His Leu Asp Val Gly Val Gly Arg Gly Asn Val Thr Gln
 65 70 75 80

His Val Gln Gly His Arg Asn Leu Ser Thr Cys Phe Ser Ser Gly Asp
 85 90 95

Leu Phe Thr Ala His Asn Phe Ser Glu Gln Ser Arg Ile Gly Ser Ser
 100 105 110

Glu Leu Gln Glu Phe Cys Pro Thr Ile Leu Gln Gln Leu Asp Ser Arg
 115 120 125

Ala Cys Thr Ser Glu Asn Gln Glu Asn Glu Glu Asn Glu Gln Thr Glu
 130 135 140

Xaa Gly Arg Pro Ser Ala Val Glu Val Trp Gly Tyr Gly Leu Leu Cys
 145 150 155 160

Val Thr Val Ser Pro Ser Ala Pro Ser Trp Gly Pro Ala Trp Xaa Pro
 165 170 175

Ser

<210> 1784
 <211> 492
 <212> PRT
 <213> Homo sapiens

<400> 1784
 Met Lys Leu Leu Leu Leu His Pro Ala Phe Gln Ser Cys Leu Leu Leu
 1 5 10 15

Thr Leu Leu Gly Leu Trp Arg Thr Thr Pro Glu Ala His Ala Ser Ser
 20 25 30

Pro Gly Ala Pro Ala Ile Ser Ala Ala Ser Phe Leu Gln Asp Leu Ile
 35 40 45

His Arg Tyr Gly Glu Gly Asp Ser Leu Thr Leu Gln Gln Leu Lys Ala
 50 55 60

Leu Leu Asn His Leu Asp Val Gly Val Gly Arg Gly Asn Val Thr Gln
 65 70 75 80

His Val Gln Gly His Arg Asn Leu Ser Thr Cys Phe Ser Ser Gly Asp

85										90					95				
Leu	Phe	Thr	Ala	His	Asn	Phe	Ser	Glu	Gln	Ser	Arg	Ile	Gly	Ser	Ser				
			100					105					110						
Glu	Leu	Gln	Glu	Phe	Cys	Pro	Thr	Ile	Leu	Gln	Gln	Leu	Asp	Ser	Arg				
		115					120						125						
Ala	Cys	Thr	Ser	Glu	Asn	Gln	Glu	Asn	Glu	Glu	Asn	Glu	Gln	Thr	Glu				
		130				135						140							
Glu	Gly	Arg	Pro	Ser	Ala	Val	Glu	Val	Trp	Gly	Tyr	Gly	Leu	Leu	Cys				
145					150					155					160				
Val	Thr	Val	Ile	Ser	Leu	Cys	Ser	Leu	Leu	Gly	Ala	Ser	Val	Val	Pro				
				165					170					175					
Phe	Met	Lys	Lys	Thr	Phe	Tyr	Lys	Arg	Leu	Leu	Leu	Tyr	Phe	Ile	Ala				
			180					185						190					
Leu	Ala	Ile	Gly	Thr	Leu	Tyr	Ser	Asn	Ala	Leu	Phe	Gln	Leu	Ile	Pro				
		195					200					205							
Glu	Ala	Phe	Gly	Phe	Asn	Pro	Leu	Glu	Asp	Tyr	Tyr	Val	Ser	Lys	Ser				
		210				215					220								
Ala	Val	Val	Phe	Gly	Gly	Phe	Tyr	Leu	Phe	Phe	Phe	Thr	Glu	Lys	Ile				
225					230					235					240				
Leu	Lys	Ile	Leu	Leu	Lys	Gln	Lys	Asn	Glu	His	His	His	Gly	His	Ser				
			245					250					255						
His	Tyr	Ala	Ser	Glu	Ser	Leu	Pro	Ser	Lys	Lys	Asp	Gln	Glu	Glu	Gly				
		260					265						270						
Val	Met	Glu	Lys	Leu	Gln	Asn	Gly	Asp	Leu	Asp	His	Met	Ile	Pro	Gln				
		275				280						285							
His	Cys	Ser	Ser	Glu	Leu	Asp	Gly	Lys	Ala	Pro	Met	Val	Asp	Glu	Lys				
		290				295					300								
Val	Ile	Val	Gly	Ser	Leu	Ser	Val	Gln	Asp	Leu	Gln	Ala	Ser	Gln	Ser				
305					310					315					320				
Ala	Cys	Tyr	Trp	Leu	Lys	Gly	Val	Arg	Tyr	Ser	Asp	Ile	Gly	Thr	Leu				
			325						330					335					
Ala	Trp	Met	Ile	Thr	Leu	Ser	Asp	Gly	Leu	His	Asn	Phe	Ile	Asp	Gly				
		340						345					350						
Leu	Ala	Ile	Gly	Ala	Ser	Phe	Thr	Val	Ser	Val	Phe	Gln	Gly	Ile	Ser				
		355					360					365							
Thr	Ser	Val	Ala	Ile	Leu	Cys	Glu	Glu	Phe	Pro	His	Glu	Leu	Gly	Asp				
		370				375					380								
Phe	Val	Ile	Leu	Leu	Asn	Ala	Gly	Met	Ser	Ile	Gln	Gln	Ala	Leu	Phe				
385					390					395					400				
Phe	Asn	Phe	Leu	Ser	Ala	Cys	Cys	Cys	Tyr	Leu	Gly	Leu	Ala	Phe	Gly				

405 410 415
 Ile Leu Ala Gly Ser His Phe Ser Ala Asn Trp Ile Phe Ala Leu Ala
 420 425 430
 Gly Gly Met Phe Leu Tyr Ile Ser Leu Ala Asp Met Phe Pro Glu Met
 435 440 445
 Asn Glu Val Cys Gln Glu Asp Glu Arg Lys Gly Ser Ile Leu Ile Pro
 450 455 460
 Phe Ile Ile Gln Asn Leu Gly Leu Leu Thr Gly Phe Thr Ile Met Val
 465 470 475 480
 Val Leu Thr Met Tyr Ser Gly Gln Ile Gln Ile Gly
 485 490

<210> 1785

<211> 192

<212> PRT

<213> Homo sapiens

<400> 1785

Met Gly Lys Ile Ser Val Ser Phe Leu Ile Phe Ala Phe Leu Phe Lys
 1 5 10 15
 Gly Phe Ser Ile Gly Lys Ala Thr Asp Arg Met Asp Ala Phe Arg Lys
 20 25 30
 Ala Lys Asn Arg Ala Val His His Leu His Tyr Ile Glu Arg Tyr Glu
 35 40 45
 Asp His Thr Ile Phe His Asp Ile Ser Leu Arg Phe Lys Arg Thr His
 50 55 60
 Ile Lys Met Lys Lys Gln Pro Lys Gly Tyr Gly Leu Arg Cys His Arg
 65 70 75 80
 Ala Ile Ile Thr Ile Cys Arg Leu Ile Gly Ile Lys Asp Met Tyr Ala
 85 90 95
 Lys Val Ser Gly Ser Ile Asn Met Leu Ser Leu Thr Gln Gly Leu Phe
 100 105 110
 Arg Gly Leu Ser Arg Gln Glu Thr His Gln Gln Leu Ala Asp Lys Lys
 115 120 125
 Gly Leu His Val Val Glu Ile Arg Glu Glu Cys Gly Pro Leu Pro Ile
 130 135 140
 Val Val Ala Ser Pro Arg Gly Pro Leu Arg Lys Asp Pro Glu Pro Glu
 145 150 155 160
 Asp Glu Val Pro Asp Val Lys Leu Asp Trp Glu Asp Val Lys Thr Ala
 165 170 175
 Gln Gly Met Lys Arg Ser Val Trp Ser Asn Leu Lys Arg Ala Ala Thr
 180 185 190

1143

<210> 1786

<211> 192

<212> PRT

<213> Homo sapiens

<400> 1786

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Met Gly Lys Ile Ser Val Ser Phe Leu Ile Phe Ala Phe Leu Phe Lys
 1             5             10             15

Gly Phe Ser Ile Gly Lys Ala Thr Asp Arg Met Asp Ala Phe Arg Lys
          20             25             30

Ala Lys Asn Arg Ala Val His His Leu His Tyr Ile Glu Arg Tyr Glu
          35             40             45

Asp His Thr Ile Phe His Asp Ile Ser Leu Arg Phe Lys Arg Thr His
          50             55             60

Ile Lys Met Lys Lys Gln Pro Lys Gly Tyr Gly Leu Arg Cys His Arg
          65             70             75             80

Ala Ile Ile Thr Ile Cys Arg Leu Ile Gly Ile Lys Asp Met Tyr Ala
          85             90             95

Lys Val Ser Gly Ser Ile Asn Met Leu Ser Leu Thr Gln Gly Leu Phe
          100            105            110

Arg Gly Leu Ser Arg Gln Glu Thr His Gln Gln Leu Ala Asp Lys Lys
          115            120            125

Gly Leu His Val Val Glu Ile Arg Glu Glu Cys Gly Pro Leu Pro Ile
          130            135            140

Val Val Ala Ser Pro Arg Gly Pro Leu Arg Lys Asp Pro Glu Pro Glu
          145            150            155            160

Asp Glu Val Pro Asp Val Lys Leu Asp Trp Glu Asp Val Lys Thr Ala
          165            170            175

Gln Gly Met Lys Arg Ser Val Trp Ser Asn Leu Lys Arg Ala Ala Thr
          180            185            190

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<210> 1787

<211> 167

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (150)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1787

Met Ile Gly Pro His Gly Tyr Ile Ser Ala Ser Asp Trp Pro Leu Met
 1 5 10 15

Ile Phe Tyr Met Val Met Cys Ile Xaa Tyr Ile Leu Tyr Gly Ile Leu
 20 25 30

Trp Leu Thr Trp Ser Ala Cys Tyr Trp Lys Asp Ile Leu Arg Ile Gln
 35 40 45

Phe Trp Ile Ala Ala Val Ile Phe Leu Gly Met Leu Glu Lys Ala Val
 50 55 60

Phe Tyr Ser Glu Tyr Gln Asn Ile Ser Asn Thr Gly Leu Ser Thr Gln
 65 70 75 80

Gly Leu Leu Ile Phe Ala Glu Leu Ile Ser Ala Ile Lys Arg Thr Leu
 85 90 95

Ala Arg Leu Leu Val Ile Ile Val Ser Leu Gly Tyr Gly Ile Val Lys
 100 105 110

Pro Arg Leu Gly Thr Val Met His Arg Val Ile Gly Leu Gly Leu Leu
 115 120 125

Tyr Leu Ile Phe Ala Ala Val Glu Gly Val Met Arg Val Ile Gly Gly
 130 135 140

Ser Asn His Leu Ala Xaa Gly Leu Asp Asp Ile Ile Leu Ala Val Ile
 145 150 155 160

Asp Ser Ile Phe Val Trp Val
 165

<210> 1788

<211> 167

<212> PRT

<213> Homo sapiens

<400> 1788

Met Ile Gly Pro His Gly Tyr Ile Ser Ala Ser Asp Trp Pro Leu Met
 1 5 10 15

Ile Phe Tyr Met Val Met Cys Ile Val Tyr Ile Leu Tyr Gly Ile Leu
 20 25 30

Trp Leu Thr Trp Ser Ala Cys Tyr Trp Lys Asp Ile Leu Arg Ile Gln
 35 40 45

Phe Trp Ile Ala Ala Val Ile Phe Leu Gly Met Leu Glu Lys Ala Val
 1145

50 55 60
 Phe Tyr Ser Glu Tyr Gln Asn Ile Ser Asn Thr Gly Leu Ser Thr Gln
 65 70 75 80
 Gly Leu Leu Ile Phe Ala Glu Leu Ile Ser Ala Ile Lys Arg Thr Leu
 85 90 95
 Ala Arg Leu Leu Val Ile Ile Val Ser Leu Gly Tyr Gly Ile Val Lys
 100 105 110
 Pro Arg Leu Gly Thr Val Met His Arg Val Ile Gly Leu Gly Leu Leu
 115 120 125
 Tyr Leu Ile Phe Ala Ala Val Glu Gly Val Met Arg Val Ile Gly Gly
 130 135 140
 Ser Asn His Leu Ala Val Val Leu Asp Asp Ile Ile Leu Ala Val Ile
 145 150 155 160
 Asp Ser Ile Phe Val Trp Phe
 165

<210> 1789
 <211> 81
 <212> PRT
 <213> Homo sapiens

<400> 1789
 Met Val His Tyr Ser Trp Cys Ala Leu Phe Cys His Phe Ala Gln Gly
 1 5 10 15
 Thr Cys Leu Gln Asn Ser Phe Gln Ser Gly Leu Val Lys Gly Cys Gln
 20 25 30
 Gly Ser Thr Gly Gly Asn Gln Gly Ser Phe Gln Ala Ala Lys Met Ser
 35 40 45
 Pro Val Cys Tyr Ser Gly His Thr Gly Trp Leu Ser Arg Pro Trp Ala
 50 55 60
 Lys Ser Ile Ser Gln Ser Ala Asp Asp Arg Ser Pro Pro Ser Arg Arg
 65 70 75 80
 Thr

<210> 1790
 <211> 81
 <212> PRT
 <213> Homo sapiens

<400> 1790
 Met Val His Tyr Ser Trp Cys Ala Leu Phe Cys His Phe Ala Gln Gly
 1 5 10 15

Thr Cys Leu Gln Asn Ser Phe Gln Ser Gly Leu Val Lys Gly Cys Gln
 20 25 30
 Gly Ser Thr Gly Gly Asn Gln Gly Ser Phe Gln Ala Ala Lys Met Ser
 35 40 45
 Pro Val Cys Tyr Ser Gly His Thr Gly Trp Leu Ser Arg Pro Trp Ala
 50 55 60
 Lys Ser Ile Ser Gln Ser Ala Asp Asp Arg Ser Pro Pro Ser Arg Arg
 65 70 75 80
 Thr

<210> 1791

<211> 183

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (75)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (125)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1791

Met Ala Leu Ala Arg Pro Gly Thr Pro Asp Pro Gln Ala Leu Ala Ser
 1 5 10 15
 Val Leu Leu Leu Leu Trp Ala Pro Ala Leu Ser Leu Leu Ala Gly
 20 25 30
 Thr Val Pro Ser Glu Pro Pro Ser Ala Cys Ala Ser Asp Pro Cys Ala
 35 40 45
 Pro Gly Thr Glu Cys Gln Ala Thr Glu Ser Gly Gly Tyr Thr Cys Gly
 50 55 60
 Pro Met Glu Pro Arg Gly Cys Ala Thr Gln Xaa Cys His His Gly Ala
 65 70 75 80
 Leu Cys Val Pro Gln Gly Pro Asp Pro Asn Gly Phe Arg Cys Tyr Cys
 85 90 95
 Val Pro Gly Phe Gln Gly Pro Arg Cys Glu Leu Asp Ile Asp Glu Cys
 100 105 110
 Ala Ser Arg Pro Cys His His Gly Ala Thr Leu Pro Xaa Pro Gly Arg
 115 120 125
 Ser Leu Arg Val Pro Leu Pro Leu Gly Tyr Ala Ala Pro His Leu Asn
 130 135 140

Pro Leu Ser Tyr Val Trp Gly Ile Pro His Leu Met Arg Gln Arg Leu
 145 150 155 160

Pro Pro Asp Gly Asp Ser Lys Ala Asn Asp Ser Lys Lys Leu Gly Pro
 165 170 175

Gln Lys Ile Tyr Ser Gly Lys
 180

<210> 1792

<211> 103

<212> PRT

<213> Homo sapiens

<400> 1792

Met Cys Phe Leu Leu Phe Gly Ser Leu Cys Ile Tyr Tyr Phe Ser Leu
 1 5 10 15

Phe Leu Val Phe Phe Phe Phe Leu Phe Leu Phe Cys Leu Val Phe Cys
 20 25 30

Ser Cys Leu His Cys Phe Arg Tyr Phe Phe Thr Pro Leu Asp Ser Pro
 35 40 45

Arg Ala Gly Ser Arg Trp Ser Ser Tyr Ala Gln Leu Leu Pro Pro Pro
 50 55 60

Pro Pro Pro Leu Val Glu His Ser Cys Asp Ala Asp Thr Ala Asn Leu
 65 70 75 80

Gln Tyr Pro His Pro Arg Arg Arg Tyr Leu Ser Arg Pro Leu Asn Pro
 85 90 95

Leu Pro Glu Asn Glu Gly Ile
 100

<210> 1793

<211> 103

<212> PRT

<213> Homo sapiens

<400> 1793

Met Cys Phe Leu Leu Phe Gly Ser Leu Cys Ile Tyr Tyr Phe Ser Leu
 1 5 10 15

Phe Leu Val Phe Phe Phe Phe Leu Phe Leu Phe Cys Leu Val Phe Cys
 20 25 30

Ser Cys Leu His Cys Phe Arg Tyr Phe Phe Thr Pro Leu Asp Ser Pro
 35 40 45

Arg Ala Gly Ser Arg Trp Ser Ser Tyr Ala Gln Leu Leu Pro Pro Pro
 50 55 60

Pro Pro Pro Leu Val Glu His Ser Cys Asp Ala Asp Thr Ala Asn Leu
 65 70 75 80

Gln Tyr Pro His Pro Arg Arg Arg Tyr Leu Ser Arg Pro Leu Asn Pro
 85 90 95

Leu Pro Glu Asn Glu Gly Ile
 100

<210> 1794

<211> 84

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (77)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1794

Met Gly His Gly Arg Arg Leu Gly Arg His Leu Leu Ala Leu Pro Val
 1 5 10 15

Thr Leu Ser Glu Arg Cys Leu Gly Ser Pro Val Glu Asn Glu Thr His
 20 25 30

Ser Arg Asp Gly Thr Glu Leu Pro Asp Gly Ser Arg Glu Pro Ser Ser
 35 40 45

Pro Arg Arg Val Ser Glu Ser Arg Val Thr Pro Ala Arg Thr Glu Glu
 50 55 60

Pro Pro Ala Glu Pro Ser Leu Thr Pro Asp Leu Arg Xaa Asp Asn Ser
 65 70 75 80

Arg Gly Ser Leu

<210> 1795

<211> 84

<212> PRT

<213> Homo sapiens

<400> 1795

Met Gly His Gly Arg Arg Leu Gly Arg His Leu Leu Ala Leu Pro Val
 1 5 10 15

Thr Leu Ser Glu Arg Cys Leu Gly Ser Pro Val Glu Asn Glu Thr His
 20 25 30

Ser Arg Asp Gly Thr Glu Leu Pro Asp Gly Ser Arg Glu Pro Ser Ser
 35 40 45

Pro Arg Arg Val Ser Glu Ser Arg Val Thr Pro Ala Arg Thr Glu Glu
 50 55 60

Pro Pro Ala Glu Pro Ser Leu Thr Pro Asp Leu Arg Leu Asp Asn Ser
 65 70 75 80

Arg Gly Ser Leu

<210> 1796

<211> 116

<212> PRT

<213> Homo sapiens

<400> 1796

Met Gly Ser Gly Cys Pro Ala Gln Pro Thr Leu Ser Pro Trp Gly Ile
 1 5 10 15

Leu Ser Arg Leu Leu Gly Val Leu Ala Gly Thr Ser Cys Gly Val Ser
 20 25 30

Thr Pro Ala Ala Ala Gln Gly Gly Pro Glu Ile Gly Cys Arg Ala Pro
 35 40 45

His Leu His Leu Ser Gly His Ala Pro Leu Ala Cys Pro Cys Ser Phe
 50 55 60

Leu Pro Thr Ser Leu Gly Gly Val Cys Val Ser Ala Pro Ala Pro Ala
 65 70 75 80

Leu Leu Ser Trp Gly Thr Leu Pro Ala Ile Trp Tyr Trp Gly Cys Pro
 85 90 95

His Cys Leu Val Leu Gly Pro Gly Pro Ala His Ser Gly Leu Ala Leu
 100 105 110

Leu Val Cys Ser
 115

<210> 1797

<211> 171

<212> PRT

<213> Homo sapiens

<400> 1797

Gly Pro Trp Pro Leu Cys Lys Ala Gln Arg Cys Ala Pro Asp Gln Pro
 1 5 10 15

Ser Gly Leu Pro Trp Ala Arg Leu Gly Val Arg Val Ala His Trp Gly
 20 25 30

Gly Gly Gly Leu Ala Arg His Ser Thr Leu Ala Gly Gly Pro Ser Gln
 35 40 45

Arg Glu Pro Cys Arg Leu Arg Trp Ser Trp Pro Leu Ala Gly Cys Pro
 50 55 60

Gly Ser Ala Pro Pro Leu Gln Gly Pro Ser Arg Asn Leu Leu Leu Asn
 65 70 75 80

Gly Lys Ser Tyr Pro Thr Lys Val Arg Leu Ile Arg Gly Gly Ser Leu
 1150

85										90				95			
Pro	Pro	Val	Lys	Arg	Arg	Arg	Met	Asn	Trp	Ile	Asp	Ala	Pro	Asp	Asp		
			100					105					110				
Val	Phe	Tyr	Met	Ala	Thr	Glu	Glu	Thr	Arg	Lys	Ile	Arg	Lys	Leu	Leu		
		115					120					125					
Ser	Ser	Ser	Glu	Thr	Lys	Arg	Ala	Ala	Arg	Arg	Pro	Tyr	Lys	Pro	Ile		
	130					135					140						
Ala	Leu	Arg	Gln	Ser	Gln	Ala	Leu	Pro	Pro	Arg	Pro	Pro	Pro	Pro	Ala		
145					150					155					160		
Pro	Val	Asn	Asp	Glu	Pro	Ile	Val	Ile	Glu	Asp							
				165					170								

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<210> 1798
<211> 81
<212> PRT
<213> Homo sapiens
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<400> 1798
Met Leu Tyr Pro Arg Ile Phe Thr Asn Arg Gly Glu Leu Leu Pro Phe
  1                      5                      10                      15
Leu Phe Leu Thr Val Trp Leu Trp Leu Tyr Lys Leu Leu Phe Gly Glu
                20                      25                      30
Ser Pro Arg Tyr Pro Asn Val Ile Gly Lys Thr Tyr Phe Phe Phe Trp
          35                      40                      45
Thr Asp Gln Ile Ser Arg Glu Ser Arg Phe Leu Glu Arg Leu Ala Phe
  50                      55                      60
Ile Val Ser Glu Asn Cys Leu Ile Phe Leu Ile His Ala Ile Thr Gly
  65                      70                      75                      80
Gln

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```
<210> 1799
<211> 81
<212> PRT
<213> Homo sapiens
```

```

<400> 1799
Met Leu Tyr Pro Arg Ile Phe Thr Asn Arg Gly Glu Leu Leu Pro Phe
  1             5             10             15
Leu Phe Leu Thr Val Trp Leu Trp Leu Tyr Lys Leu Leu Phe Gly Glu
      20             25             30
Ser Pro Arg Tyr Pro Asn Val Ile Gly Lys Thr Tyr Phe Phe Phe Trp
      35             40             45

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Thr Asp Gln Ile Ser Arg Glu Ser Arg Phe Leu Glu Arg Leu Ala Phe
 50 55 60

Ile Val Ser Glu Asn Cys Leu Ile Phe Leu Ile His Ala Ile Thr Gly
 65 70 75 80

Gln

<210> 1800

<211> 149

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (140)

<223> Xaa equals any of the naturally occurring L-amino acids .

<400> 1800

Met Val Leu Leu Trp Ala Ser Val Leu Phe Pro Ala Pro Glu Asp Trp
 1 5 10 15

Ala Glu Leu Gln Gly Ala Val Tyr Arg Leu Leu Val Val Leu Leu Cys
 20 25 30

Cys Leu Ala Thr Arg Lys Leu Pro His Phe Leu His Pro Gln Arg Asn
 35 40 45

Leu Leu Gln Gly Ser Gly Leu Asp Leu Gly Ala Ile Tyr Gln Arg Val
 50 55 60

Glu Gly Phe Ala Ser Gln Pro Glu Ala Ala Leu Arg Ile His Ala Thr
 65 70 75 80

His Leu Gly Arg Ser Pro Pro Pro Arg Ile Gly Ser Gly Leu Lys Ala
 85 90 95

Leu Leu Gln Leu Pro Ala Ser Asp Pro Thr Tyr Trp Ala Thr Ala Tyr
 100 105 110

Phe Asp Val Leu Leu Asp Lys Phe Gln Val Phe Asn Ile Gln Asp Lys
 115 120 125

Asp Arg Ile Ser Ala Met Gln Ser Ile Phe Gln Xaa Thr Arg Thr Leu
 130 135 140

Gly Gly Glu Glu Ser
 145

<210> 1801

<211> 149

<212> PRT

<213> Homo sapiens

<400> 1801 .

Met Val Leu Leu Trp Ala Ser Val Leu Phe Pro Ala Pro Glu Asp Trp
 1 5 10 15
 Ala Glu Leu Gln Gly Ala Val Tyr Arg Leu Leu Val Val Leu Leu Cys
 20 25 30
 Cys Leu Ala Thr Arg Lys Leu Pro His Phe Leu His Pro Gln Arg Asn
 35 40 45
 Leu Leu Gln Gly Ser Gly Leu Asp Leu Gly Ala Ile Tyr Gln Arg Val
 50 55 60
 Glu Gly Phe Ala Ser Gln Pro Glu Ala Ala Leu Arg Ile His Ala Thr
 65 70 75 80
 His Leu Gly Arg Ser Pro Pro Pro Arg Ile Gly Ser Gly Leu Lys Ala
 85 90 95
 Leu Leu Gln Leu Pro Ala Ser Asp Pro Thr Tyr Trp Ala Thr Ala Tyr
 100 105 110
 Phe Asp Val Leu Leu Asp Lys Phe Gln Val Phe Asn Ile Gln Asp Lys
 115 120 125
 Asp Arg Ile Ser Ala Met Gln Ser Ile Phe Gln Lys Thr Arg Thr Leu
 130 135 140
 Gly Gly Glu Glu Ser
 145

<210> 1802

<211> 140

<212> PRT

<213> Homo sapiens

<400> 1802

Ile Pro Leu Cys Ser Ile Phe Gly Ala Leu Ile Ala Val Cys Leu Ile
 1 5 10 15
 Met Gly Leu Phe Asp Gly Cys Phe Ile Ser Ile Met Ala Pro Ile Ala
 20 25 30
 Phe Glu Leu Val Gly Ala Gln Asp Val Ser Gln Ala Ile Gly Phe Leu
 35 40 45
 Leu Gly Phe Met Ser Ile Pro Met Thr Val Gly Pro Pro Ile Ala Gly
 50 55 60
 Leu Leu Arg Asp Lys Leu Gly Ser Tyr Asp Val Ala Phe Tyr Leu Ala
 65 70 75 80
 Gly Val Pro Pro Leu Ile Gly Gly Ala Val Leu Cys Phe Ile Pro Trp
 85 90 95
 Ile His Ser Lys Lys Gln Arg Glu Ile Ser Lys Thr Thr Gly Lys Glu
 100 105 110
 Lys Met Glu Lys Met Leu Glu Asn Gln Asn Ser Leu Leu Ser Ser Ser

1153

115	120	125
Ser Gly Met Phe Lys Lys Glu Ser Asp Ser Ile Ile		
130	135	140
<p><210> 1803</p> <p><211> 234</p> <p><212> PRT</p> <p><213> Homo sapiens</p>		
<p><400> 1803</p>		
Pro Thr Arg Pro Pro Thr Arg Pro Val Arg Val Ser Val Gly Gly Leu		
1	5	10 15
Val Gly Glu Val Ala Cys Ala Cys Arg Asp Cys Ile Pro Glu Thr Met		
	20	25 30
Ala Glu Gly Asp Asn Arg Ser Thr Asn Leu Leu Ala Ala Glu Thr Ala		
	35	40 45
Ser Leu Glu Glu Gln Leu Gln Gly Trp Gly Glu Val Met Leu Met Ala		
	50	55 60
Asp Lys Val Leu Arg Trp Glu Arg Ala Trp Phe Pro Pro Ala Ile Met		
65	70	75 80
Gly Val Val Ser Leu Val Phe Leu Ile Ile Tyr Tyr Leu Asp Pro Ser		
	85	90 95
Val Leu Ser Gly Val Ser Cys Phe Val Met Phe Leu Cys Leu Ala Asp		
	100	105 110
Tyr Leu Val Pro Ile Leu Ala Pro Arg Ile Phe Gly Ser Asn Lys Trp		
	115	120 125
Thr Thr Glu Gln Gln Gln Arg Phe His Glu Ile Cys Ser Asn Leu Val		
	130	135 140
Lys Thr Arg Arg Arg Ala Val Gly Trp Trp Lys Arg Leu Phe Thr Leu		
145	150	155 160
Lys Glu Glu Lys Pro Lys Met Tyr Phe Met Thr Met Ile Val Ser Leu		
	165	170 175
Ala Ala Val Ala Trp Val Gly Gln Gln Val His Asn Leu Leu Leu Thr		
	180	185 190
Tyr Leu Ile Val Thr Ser Leu Leu Leu Leu Pro Gly Leu Asn Gln His		
	195	200 205
Gly Ile Ile Leu Lys Tyr Ile Gly Met Ala Lys Arg Glu Ile Asn Lys		
	210	215 220
Leu Leu Lys Gln Lys Glu Lys Lys Asn Glu		
225	230	

<210> 1804

<211> 155

<212> PRT

<213> Homo sapiens

<400> 1804

Met Gly Val Val Ser Leu Val Phe Leu Ile Ile Tyr Tyr Leu Asp Pro
 1 5 10 15

Ser Val Leu Ser Gly Val Ser Cys Phe Val Met Phe Leu Cys Leu Ala
 20 25 30

Asp Tyr Leu Val Pro Ile Leu Ala Pro Arg Ile Phe Gly Ser Asn Lys
 35 40 45

Trp Thr Thr Glu Gln Gln Gln Arg Phe His Glu Ile Cys Ser Asn Leu
 50 55 60

Val Lys Thr Arg Arg Arg Ala Val Gly Trp Trp Lys Arg Leu Phe Thr
 65 70 75 80

Leu Lys Glu Glu Lys Pro Lys Met Tyr Phe Met Thr Met Ile Val Ser
 85 90 95

Leu Ala Ala Val Ala Trp Val Gly Gln Gln Val His Asn Leu Leu Leu
 100 105 110

Thr Tyr Leu Ile Val Thr Ser Leu Leu Leu Leu Pro Gly Leu Asn Gln
 115 120 125

His Gly Ile Ile Leu Lys Tyr Ile Gly Met Ala Lys Arg Glu Ile Asn
 130 135 140

Lys Leu Leu Lys Gln Lys Glu Lys Lys Asn Glu
 145 150 155

<210> 1805

<211> 202

<212> PRT

<213> Homo sapiens

<400> 1805

Met Ala Glu Gly Asp Asn Arg Ser Thr Asn Leu Leu Ala Ala Glu Thr
 1 5 10 15

Ala Ser Leu Glu Glu Gln Leu Gln Gly Trp Gly Glu Val Met Leu Met
 20 25 30

Ala Asp Lys Val Leu Arg Trp Glu Arg Ala Trp Phe Pro Pro Ala Ile
 35 40 45

Met Gly Val Val Ser Leu Val Phe Leu Ile Ile Tyr Tyr Leu Asp Pro
 50 55 60

Ser Val Leu Ser Gly Val Ser Cys Phe Val Met Phe Leu Cys Leu Ala
 65 70 75 80

Asp Tyr Leu Val Pro Ile Leu Ala Pro Arg Ile Phe Gly Ser Asn Lys
 1155

85 90 95
 Trp Thr Thr Glu Gln Gln Gln Arg Phe His Glu Ile Cys Ser Asn Leu
 100 105 110
 Val Lys Thr Arg Arg Arg Ala Val Gly Trp Trp Lys Arg Leu Phe Thr
 115 120 125
 Leu Lys Glu Glu Lys Pro Lys Met Tyr Phe Met Thr Met Ile Val Ser
 130 135 140
 Leu Ala Ala Val Ala Trp Val Gly Gln Gln Val His Asn Leu Leu Leu
 145 150 155 160
 Thr Tyr Leu Ile Val Thr Ser Leu Leu Leu Leu Pro Gly Leu Asn Gln
 165 170 175
 His Gly Ile Ile Leu Lys Tyr Ile Gly Met Ala Lys Arg Glu Ile Asn
 180 185 190
 Lys Leu Leu Lys Gln Lys Lys Lys Lys Lys
 195 200

<210> 1806

<211> 485

<212> PRT

<213> Homo sapiens

<400> 1806

Ala Arg Lys Pro Arg Ser Gln Ile Lys Asn Glu Ile Asn Ile Asp Thr
 1 5 10 15
 Leu Ala Arg Asp Glu Phe Asn Leu Gln Lys Met Met Val Met Val Thr
 20 25 30
 Ala Ser Gly Lys Leu Phe Gly Ile Glu Ser Ser Ser Gly Thr Ile Leu
 35 40 45
 Trp Lys Gln Tyr Leu Pro Asn Val Lys Pro Asp Ser Ser Phe Lys Leu
 50 55 60
 Met Val Gln Arg Thr Thr Ala His Phe Pro His Pro Pro Gln Cys Thr
 65 70 75 80
 Leu Leu Val Lys Asp Lys Glu Ser Gly Met Ser Ser Leu Tyr Val Phe
 85 90 95
 Asn Pro Ile Phe Gly Lys Trp Ser Gln Val Ala Pro Pro Val Leu Lys
 100 105 110
 Arg Pro Ile Leu Gln Ser Leu Leu Leu Pro Val Met Asp Gln Asp Tyr
 115 120 125
 Ala Lys Val Leu Leu Leu Ile Asp Asp Glu Tyr Lys Val Thr Ala Phe
 130 135 140
 Pro Ala Thr Arg Asn Val Leu Arg Gln Leu His Glu Leu Ala Pro Ser
 145 150 155 160

Ile Phe Phe Tyr Leu Val Asp Ala Glu Gln Gly Arg Leu Cys Gly Tyr
 165 170 175
 Arg Leu Arg Lys Asp Leu Thr Thr Glu Leu Ser Trp Glu Leu Thr Ile
 180 185 190
 Pro Pro Glu Val Gln Arg Ile Val Lys Val Lys Gly Lys Arg Ser Ser
 195 200 205
 Glu His Val His Ser Gln Gly Arg Val Met Gly Asp Arg Ser Val Leu
 210 215 220
 Tyr Lys Ser Leu Asn Pro Asn Leu Leu Ala Val Val Thr Glu Ser Thr
 225 230 235 240
 Asp Ala His His Glu Arg Thr Phe Ile Gly Ile Phe Leu Ile Asp Gly
 245 250 255
 Val Thr Gly Arg Ile Ile His Ser Ser Val Gln Lys Lys Ala Lys Gly
 260 265 270
 Pro Val His Ile Val His Ser Glu Asn Trp Val Val Tyr Gln Tyr Trp
 275 280 285
 Asn Thr Lys Ala Arg Arg Asn Glu Phe Thr Val Leu Glu Leu Tyr Glu
 290 295 300
 Gly Thr Glu Gln Tyr Asn Ala Thr Ala Phe Ser Ser Leu Asp Arg Pro
 305 310 315 320
 Gln Leu Pro Gln Val Leu Gln Gln Ser Tyr Ile Phe Pro Ser Ser Ile
 325 330 335
 Ser Ala Met Glu Ala Thr Ile Thr Glu Arg Gly Ile Thr Ser Arg His
 340 345 350
 Leu Leu Ile Gly Leu Pro Ser Gly Ala Ile Leu Ser Leu Pro Lys Ala
 355 360 365
 Leu Leu Asp Pro Arg Arg Pro Glu Ile Pro Thr Glu Gln Ser Arg Glu
 370 375 380
 Glu Asn Leu Ile Pro Tyr Ser Pro Asp Val Gln Ile His Ala Glu Arg
 385 390 395 400
 Phe Ile Asn Tyr Asn Gln Thr Val Ser Arg Met Arg Gly Ile Tyr Thr
 405 410 415
 Ala Pro Ser Gly Leu Glu Ser Thr Cys Leu Val Val Ala Tyr Gly Leu
 420 425 430
 Asp Ile Tyr Gln Thr Arg Val Tyr Pro Ser Lys Gln Phe Asp Val Leu
 435 440 445
 Lys Asp Asp Tyr Asp Tyr Val Leu Ile Ser Ser Val Leu Phe Gly Leu
 450 455 460
 Val Phe Ala Thr Met Ile Thr Lys Arg Leu Ala Gln Val Lys Leu Leu
 465 470 475 480

Asn Arg Ala Trp Arg
485

<210> 1807

<211> 360

<212> PRT

<213> Homo sapiens

<400> 1807

Met Ala Ala Glu Trp Ala Ser Arg Phe Trp Leu Trp Ala Thr Leu Leu
1 5 10 15

Ile Pro Ala Ala Ala Val Tyr Glu Asp Gln Val Gly Lys Phe Asp Trp
20 25 30

Arg Gln Gln Tyr Val Gly Lys Val Lys Phe Ala Ser Leu Glu Phe Ser
35 40 45

Pro Gly Ser Lys Lys Leu Val Val Ala Thr Glu Lys Asn Val Ile Ala
50 55 60

Ala Leu Asn Ser Arg Thr Gly Glu Ile Leu Trp Arg His Val Asp Lys
65 70 75 80

Gly Thr Ala Glu Gly Ala Val Asp Ala Met Leu Leu His Gly Gln Asp
85 90 95

Val Ile Thr Val Ser Asn Gly Gly Arg Ile Met Arg Ser Trp Glu Thr
100 105 110

Asn Ile Gly Gly Leu Asn Trp Glu Ile Thr Leu Asp Ser Gly Ser Phe
115 120 125

Gln Ala Leu Gly Leu Val Gly Leu Gln Glu Ser Val Arg Tyr Ile Ala
130 135 140

Val Leu Lys Lys Thr Thr Leu Ala Leu His His Leu Ser Ser Gly His
145 150 155 160

Leu Lys Trp Val Glu His Leu Pro Glu Ser Asp Ser Ile His Tyr Gln
165 170 175

Met Val Tyr Ser Tyr Gly Ser Gly Val Val Trp Ala Leu Gly Val Val
180 185 190

Pro Phe Ser His Val Asn Ile Val Lys Phe Asn Val Glu Asp Gly Glu
195 200 205

Ile Val Gln Gln Val Arg Val Ser Thr Pro Trp Leu Gln His Leu Ser
210 215 220

Gly Ala Cys Gly Val Val Asp Glu Ala Val Leu Val Cys Pro Asp Pro
225 230 235 240

Ser Ser Arg Ser Leu Gln Thr Leu Ala Leu Glu Thr Glu Trp Glu Leu
245 250 255

Arg Gln Ile Pro Leu Gln Ser Leu Asp Leu Glu Phe Gly Ser Gly Phe
 260 265 270
 Gln Pro Arg Val Leu Pro Thr Gln Pro Asn Pro Val Asp Ala Ser Arg
 275 280 285
 Ala Gln Phe Phe Leu His Leu Ser Pro Ser His Tyr Ala Leu Leu Gln
 290 295 300
 Tyr His Tyr Gly Thr Leu Ser Leu Leu Lys Asn Phe Pro Gln Thr Ala
 305 310 315 320
 Leu Val Ser Phe Ala Thr Thr Gly Glu Lys Thr Val Ala Ala Val Met
 325 330 335
 Ala Cys Arg Asn Glu Val Gln Lys Thr Ser Ser Ser Glu Asp Gly Ser
 340 345 350
 Met Gly Glu Leu Phe Gly Glu Val
 355 360

<210> 1808
 <211> 75
 <212> PRT
 <213> Homo sapiens

<400> 1808
 Met Arg Gly Ile Tyr Thr Ala Pro Ser Gly Leu Glu Ser Thr Cys Leu
 1 5 10 15
 Val Val Ala Tyr Gly Leu Asp Ile Tyr Gln Thr Arg Val Tyr Pro Ser
 20 25 30
 Lys Gln Phe Asp Val Leu Lys Asp Asp Tyr Asp Tyr Val Leu Ile Ser
 35 40 45
 Ser Val Leu Phe Gly Leu Val Phe Ala Thr Met Ile Thr Lys Arg Leu
 50 55 60
 Ala Gln Val Lys Leu Leu Asn Arg Ala Trp Arg
 65 70 75

<210> 1809
 <211> 136
 <212> PRT
 <213> Homo sapiens

<400> 1809
 Glu Phe Gly Thr Arg Lys Glu Glu Glu Arg Val Ala Met Val Pro Arg
 1 5 10 15
 Leu Ala Phe Ile Leu Phe Val Leu Ala Arg Asp Tyr Asn Val Thr Ser
 20 25 30
 Leu Gly Gln Asp Leu Asn Trp Lys Tyr Glu Ala Lys Asp Tyr Arg Lys
 35 40 45

Thr Gly Glu Leu Lys Asn Ile Gly Glu Cys Gly Arg Ser Tyr Lys Phe
 50 55 60
 Leu Ser Arg Asn Gln Asp Trp Asn Thr Arg Tyr Ser His Pro Asn Arg
 65 70 75 80
 Pro Ala Lys Tyr Ser Gly Ile Asp Glu Met Cys Lys Ala Gln Glu Ser
 85 90 95
 Gly Leu Ser Pro Ser Lys Gln Leu Asn Arg Leu Ser Thr Leu Thr Ala
 100 105 110
 Leu Lys Val Ser Gln Pro Val Lys Leu Ala Leu Phe Ser Arg Ser Pro
 115 120 125
 Arg Arg Glu Ile Arg Val Gly Arg
 130 135

<210> 1810

<211> 81

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (56)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1810

Gly Leu His Phe Asn Ile Arg Val Asp His Gly Met Leu Trp Ala Pro
 1 5 10 15

Val Leu Tyr Lys Asp Val Gly Gln Glu Leu Pro Val Val Ser Thr Ala
 20 25 30

Pro Ser His Ile Ala Leu Leu Met Glu Pro Phe Thr Pro Asp Val Leu
 35 40 45

Ser Arg Leu Met Gly Arg Ile Xaa Val Cys Lys Asp Tyr Val Ile Asp
 50 55 60

Gln Leu Trp Ser Val Leu Lys Glu Ile Cys Gln Trp Ile Ile Pro Tyr
 65 70 75 80

Gly

<210> 1811

<211> 91

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (78)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1811

```

Met His Leu Gly Leu Val Ser Leu Ile Leu Phe Cys Gln Ala Leu Glu
 1              5              10              15

Val Asp Ile Ser Leu Gln Gly Pro Gly Ile Val Pro Gly Arg Ser Glu
              20              25              30

Val Ser Leu Ser Leu Gln Gly Pro Arg Gly Gly Gly Cys Phe Pro Ile
              35              40              45

Ala Thr Gly Ala Pro Phe Ile Val Leu Leu Pro Leu Gly Leu Tyr Leu
 50              55              60

Val Phe His Leu Cys Cys Phe Phe Gly Leu Phe Cys Ala Xaa Leu Arg
 65              70              75              80

Leu Arg Glu Pro Gly Trp Asp His Leu Ile Ile
              85              90

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<210> 1812

<211> 230

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (63)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (66)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1812

```

Met Gly Asn Ser Leu Ser Val Phe Cys Ser Trp Phe Cys Arg Arg Ser
 1              5              10              15

Trp Pro Cys His Arg Gln Pro Ala Arg Leu Val Arg Glu Ala Phe Pro
              20              25              30

Ala Gly Arg Ala His Pro Ala Ala Pro Ala Pro Val Pro Ala Arg Gly
 35              40              45

Ile Val Gly Arg Phe Pro Leu Leu Phe Asn Arg Gln Arg His Xaa Gly
 50              55              60

Pro Xaa Phe Pro Val Arg Trp Asp Gly Ala Pro Met Arg Leu Cys Leu
 65              70              75              80

Ile Pro Arg Asn Thr Gly Thr Pro Gln Arg Val Leu Arg Pro Val Val
              85              90              95

Trp Ser Pro Pro Ser Arg Lys Lys Pro Val Leu Ser Pro His Asn Ser
              100              105              110

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Ile Met Phe Gly His Leu Ser Pro Val Arg Ile Pro Cys Leu Arg Gly
 115 120 125

Lys Phe Asn Leu Gln Leu Pro Ser Leu Asp Asp Gln Val Ile Pro Ala
 130 135 140

Arg Leu Pro Lys Thr Glu Val Ser Ala Glu Glu Pro Lys Glu Ala Thr
 145 150 155 160

Glu Val Lys Asp Gln Val Glu Thr Gln Gly Gln Glu Asp Asn Lys Arg
 165 170 175

Gly Pro Cys Ser Asn Gly Glu Ala Ala Ser Thr Ser Arg Pro Leu Glu
 180 185 190

Thr Gln Gly Asn Leu Thr Ser Ser Trp Tyr Asn Pro Arg Pro Leu Glu
 195 200 205

Gly Asn Val His Leu Lys Ser Leu Thr Glu Lys Asn Gln Thr Asp Lys
 210 215 220

Ala Gln Val His Ala Val
 225 230

<210> 1813

<211> 232

<212> PRT

<213> Homo sapiens

<400> 1813

Met Gly Asn Ser Leu Ser Val Phe Cys Ser Trp Phe Cys Arg Arg Ser
 1 5 10 15

Trp Pro Cys His Arg Gln Pro Ala Arg Leu Val Arg Glu Ala Phe Pro
 20 25 30

Ala Gly Arg Ala His Pro Ala Ala Pro Ala Pro Val Pro Ala Arg Gly
 35 40 45

Ile Val Gly Arg Phe Pro Leu Leu Phe Asn Arg Gln Arg His Leu Gly
 50 55 60

Pro Ser Phe Pro Val Arg Trp Asp Gly Ala Pro Met Arg Leu Cys Leu
 65 70 75 80

Ile Pro Arg Asn Thr Gly Thr Pro Gln Arg Val Leu Arg Pro Val Val
 85 90 95

Trp Ser Pro Pro Ser Arg Lys Lys Pro Val Leu Ser Pro His Asn Ser
 100 105 110

Ile Met Phe Gly His Leu Ser Pro Val Arg Ile Pro Cys Leu Arg Gly
 115 120 125

Lys Phe Asn Leu Gln Leu Pro Ser Leu Asp Asp Gln Val Ile Pro Ala
 130 135 140

Arg Leu Pro Lys Thr Glu Val Ser Ala Glu Glu Pro Lys Glu Ala Thr

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145 150 155 160
 Glu Val Lys Asp Gln Val Glu Thr Gln Gly Gln Glu Asp Asn Lys Arg
 165 170 175
 Gly Pro Cys Ser Asn Gly Glu Ala Ala Ser Thr Ser Arg Pro Leu Glu
 180 185 190
 Thr Gln Gly Asn Leu Thr Ser Ser Trp Tyr Asn Pro Arg Pro Leu Glu
 195 200 205
 Gly Asn Val His Leu Lys Ser Leu Thr Glu Lys Asn Gln Thr Asp Lys
 210 215 220
 Ala Gln Val His Ala Val Ser Cys
 225 230

<210> 1814
 <211> 156
 <212> PRT
 <213> Homo sapiens

<400> 1814
 Met Gln Ile Gln Val Ala Gly Leu Leu Gln Phe Ala Val Pro Leu Phe
 1 5 10 15
 Ser Thr Ala Glu Glu Asp Leu Leu Ala Ile Gln Leu Leu Leu Asn Ser
 20 25 30
 Ser Glu Ser Ser Leu His Gln Leu Thr Ala Met Val Asp Cys Arg Gly
 35 40 45
 Leu His Lys Asp Tyr Leu Asp Ala Leu Ala Gly Ile Cys Tyr Asp Gly
 50 55 60
 Leu Gln Gly Leu Leu Tyr Leu Gly Leu Phe Ser Phe Leu Ala Ala Leu
 65 70 75 80
 Ala Phe Ser Thr Met Ile Cys Ala Gly Pro Arg Ala Trp Lys His Phe
 85 90 95
 Thr Thr Arg Asn Arg Asp Tyr Asp Asp Ile Asp Asp Asp Asp Pro Phe
 100 105 110
 Asn Pro Gln Ala Trp Arg Met Ala Ala His Ser Pro Pro Arg Gly Gln
 115 120 125
 Leu His Ser Phe Cys Ser Tyr Ser Ser Gly Leu Gly Ser Gln Thr Ser
 130 135 140
 Leu Gln Pro Pro Ala Gln Thr Ile Ser Asn Ala Pro
 145 150 155

<210> 1815
 <211> 213
 <212> PRT

<213> Homo sapiens

<400> 1815

```

Met Gln Ile Gln Val Ala Gly Leu Leu Gln Phe Ala Val Pro Leu Phe
  1             5             10             15

Ser Thr Ala Glu Glu Asp Leu Leu Ala Ile Gln Leu Leu Leu Asn Ser
      20             25             30

Ser Glu Ser Ser Leu His Gln Leu Thr Ala Met Val Asp Cys Arg Gly
      35             40             45

Leu His Lys Asp Tyr Leu Asp Ala Leu Ala Gly Ile Cys Tyr Asp Gly
      50             55             60

Leu Gln Gly Leu Leu Tyr Leu Gly Leu Phe Ser Phe Leu Ala Ala Leu
      65             70             75             80

Ala Phe Ser Thr Met Ile Cys Ala Gly Pro Arg Ala Trp Lys His Phe
      85             90             95

Thr Thr Arg Asn Arg Asp Tyr Asp Asp Ile Asp Asp Asp Asp Pro Phe
      100            105            110

Asn Pro Gln Ala Trp Arg Met Ala Ala His Ser Pro Pro Arg Gly Gln
      115            120            125

Leu His Ser Phe Cys Ser Tyr Ser Ser Gly Leu Gly Ser Gln Thr Ser
      130            135            140

Leu Gln Pro Pro Ala Gln Thr Ile Ser Asn Ala Pro Val Ser Glu Tyr
      145            150            155            160

Met Asn Gln Ala Met Leu Phe Gly Arg Asn Pro Arg Tyr Glu Asn Val
      165            170            175

Pro Leu Ile Gly Arg Ala Ser Pro Pro Pro Thr Tyr Ser Pro Ser Met
      180            185            190

Arg Ala Thr Tyr Leu Ser Val Ala Asp Glu His Leu Arg His Tyr Gly
      195            200            205

Asn Gln Phe Pro Ala
      210

```

<210> 1816

<211> 28

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1816

```

Glu Cys Xaa Arg Lys Pro Thr Pro Arg Ala Glu Phe Leu Gln Pro Gly
  1             5             10             15

```

Gly Ser Thr Ser Ser Arg Ala Ala Ala Thr Ala Val
 20 25

<210> 1817
 <211> 75
 <212> PRT
 <213> Homo sapiens

<400> 1817
 Met Leu Asn Pro Leu Arg Gln Leu Phe Lys Leu Met Ala Ser Leu Phe
 1 5 10 15
 Leu Ser Val Phe Thr Leu Gly Leu Pro Phe Ala Leu Phe Gln Tyr Tyr
 20 25 30
 Ala Tyr Thr Gln Phe Cys Leu Pro Gly Ser Ala Arg Pro Ile Pro Glu
 35 40 45
 Pro Leu Val Gln Leu Ala Val Asp Lys Gly Tyr Arg Ile Ala Glu Gly
 50 55 60
 Asn Glu Pro Leu Gly Ala Ser Gly Met Phe His
 65 70 75

<210> 1818
 <211> 280
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (94)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (95)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1818
 Met His Ser Gln Cys Gln Gly Phe Phe Ser Ser Leu Thr Met Leu Asn
 1 5 10 15
 Pro Leu Arg Gln Leu Phe Lys Leu Met Ala Ser Leu Phe Leu Ser Val
 20 25 30
 Phe Thr Leu Gly Leu Pro Phe Ala Leu Phe Gln Tyr Tyr Ala Tyr Thr
 35 40 45
 Gln Phe Cys Leu Pro Gly Ser Ala Arg Pro Ile Pro Glu Pro Leu Val
 50 55 60
 Gln Leu Ala Val Asp Lys Gly Tyr Arg Ile Ala Glu Gly Asn Glu Pro
 65 70 75 80

Pro Trp Cys Phe Trp Asp Val Pro Leu Ile Tyr Ser Tyr Xaa Xaa Asp
 85 90 95
 Val Tyr Trp Asn Val Gly Phe Leu Lys Tyr Tyr Glu Leu Lys Gln Val
 100 105 110
 Pro Asn Phe Leu Leu Ala Ala Pro Val Ala Ile Leu Val Ala Trp Ala
 115 120 125
 Thr Trp Thr Tyr Val Thr Thr His Pro Trp Leu Cys Leu Thr Leu Gly
 130 135 140
 Leu Gln Arg Ser Lys Asn Asn Lys Thr Leu Glu Lys Pro Asp Leu Gly
 145 150 155 160
 Phe Leu Ser Pro Gln Val Phe Val Tyr Val Val His Ala Ala Val Leu
 165 170 175
 Leu Leu Phe Gly Gly Leu Cys Met His Val Gln Val Leu Thr Arg Phe
 180 185 190
 Leu Gly Ser Ser Thr Pro Ile Met Tyr Trp Phe Pro Ala His Leu Leu
 195 200 205
 Gln Asp Gln Glu Pro Leu Leu Arg Ser Leu Lys Thr Val Pro Trp Lys
 210 215 220
 Pro Leu Ala Glu Asp Ser Pro Pro Gly Gln Lys Val Pro Arg Asn Pro
 225 230 235 240
 Ile Met Gly Leu Leu Tyr His Trp Lys Thr Cys Ser Pro Val Thr Arg
 245 250 255
 Tyr Ile Leu Gly Tyr Phe Leu Thr Tyr Trp Leu Leu Gly Leu Leu Leu
 260 265 270
 His Cys Asn Phe Leu Pro Trp Thr
 275 280

<210> 1819

<211> 273

<212> PRT

<213> Homo sapiens

<400> 1819

Met Leu Phe Phe Cys Gly Asp Leu Leu Ser Arg Ser Gln Ile Phe Tyr
 1 5 10 15
 Tyr Ser Thr Gly Met Thr Val Gly Ile Val Ala Ser Leu Leu Ile Ile
 20 25 30
 Ile Phe Ile Leu Ser Lys Phe Met Pro Lys Lys Ser Pro Ile Tyr Val
 35 40 45
 Ile Leu Val Gly Gly Trp Ser Phe Ser Leu Tyr Leu Ile Gln Leu Val
 50 55 60
 Phe Lys Asn Leu Gln Glu Ile Trp Arg Cys Tyr Trp Gln Tyr Leu Leu

65		70		75		80
Ser Tyr Val Leu Thr	Val Gly Phe Met	Ser Phe Ala Val	Cys Tyr Lys			
	85	90	95			
Tyr Gly Pro Leu Glu Asn	Glu Arg Ser Ile Asn	Leu Leu Thr Trp Thr				
	100	105	110			
Leu Gln Leu Met Gly Leu	Cys Phe Met Tyr Ser	Gly Ile Gln Ile Pro				
	115	120	125			
His Ile Ala Leu Ala Ile	Ile Ile Ile Ala Leu	Cys Thr Lys Asn Leu				
	130	135	140			
Glu His Pro Ile Gln Trp	Leu Tyr Ile Thr Cys	Arg Lys Val Cys Lys				
	145	150	155			160
Gly Ala Glu Lys Pro Val	Pro Pro Arg Leu Leu	Thr Glu Glu Glu Tyr				
	165	170	175			
Arg Ile Gln Gly Glu Val	Glu Thr Arg Lys Ala	Leu Glu Glu Leu Arg				
	180	185	190			
Glu Phe Cys Asn Ser Pro	Asp Cys Ser Ala Trp	Lys Thr Val Ser Arg				
	195	200	205			
Ile Gln Ser Pro Lys Arg	Phe Ala Asp Phe Val	Glu Gly Ser Ser His				
	210	215	220			
Leu Thr Pro Asn Glu Val	Ser Val His Glu Gln	Glu Tyr Gly Leu Gly				
	225	230	235			240
Ser Ile Ile Ala Gln Asp	Glu Ile Tyr Glu Glu	Ala Ser Ser Glu Glu				
	245	250	255			
Glu Asp Ser Tyr Ser Arg	Cys Pro Ala Ile Thr	Gln Asn Asn Phe Leu				
	260	265	270			
Thr						

<210> 1820

<211> 96

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (81)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (83)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (84)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (96)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1820

```

Met Lys Val Ala Val Ser Pro Ala Val Gly Pro Gly Pro Trp Gly Ser
 1           5           10           15

Gly Val Gly Gly Gly Gly Thr Val Arg Leu Leu Leu Ile Leu Ser Gly
          20           25           30

Cys Leu Val Tyr Gly Thr Ala Glu Thr Asp Val Asn Val Val Met Leu
          35           40           45

Gln Glu Ser Gln Val Cys Glu Lys Arg Ala Ser Gln Gln Phe Cys Tyr
          50           55           60

Thr Asn Val Leu Ile Pro Lys Trp His Asp Ile Trp Thr Arg Ile Gln
 65           70           75           80

Xaa Arg Xaa Xaa Ser Ser Arg Leu Val Arg Val Thr Gln Val Glu Xaa
          85           90           95

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<210> 1821

<211> 273

<212> PRT

<213> Homo sapiens

<400> 1821

```

Met Leu Phe Phe Cys Gly Asp Leu Leu Ser Arg Ser Gln Ile Phe Tyr
 1           5           10           15

Tyr Ser Thr Gly Met Thr Val Gly Ile Val Ala Ser Leu Leu Ile Ile
          20           25           30

Ile Phe Ile Leu Ser Lys Phe Met Pro Lys Lys Ser Pro Ile Tyr Val
          35           40           45

Ile Leu Val Gly Gly Trp Ser Phe Ser Leu Tyr Leu Ile Gln Leu Val
          50           55           60

Phe Lys Asn Leu Gln Glu Ile Trp Arg Cys Tyr Trp Gln Tyr Leu Leu
          65           70           75           80

Ser Tyr Val Leu Thr Val Gly Phe Met Ser Phe Ala Val Cys Tyr Lys
          85           90           95

Tyr Gly Pro Leu Glu Asn Glu Arg Ser Ile Asn Leu Leu Thr Trp Thr
          100           105           110

Leu Gln Leu Met Gly Leu Cys Phe Met Tyr Ser Gly Ile Gln Ile Pro

```

115 120 125
 His Ile Ala Leu Ala Ile Ile Ile Ile Ala Leu Cys Thr Lys Asn Leu
 130 135 140
 Glu His Pro Ile Gln Trp Leu Tyr Ile Thr Cys Arg Lys Val Cys Lys
 145 150 155 160
 Gly Ala Glu Lys Pro Val Pro Pro Arg Leu Leu Thr Glu Glu Glu Tyr
 165 170 175
 Arg Ile Gln Gly Glu Val Glu Thr Arg Lys Ala Leu Glu Glu Leu Arg
 180 185 190
 Glu Phe Cys Asn Ser Pro Asp Cys Ser Ala Trp Lys Thr Val Ser Arg
 195 200 205
 Ile Gln Ser Pro Lys Arg Phe Ala Asp Phe Val Glu Gly Ser Ser His
 210 215 220
 Leu Thr Pro Asn Glu Val Ser Val His Glu Gln Glu Tyr Gly Leu Gly
 225 230 235 240
 Ser Ile Ile Ala Gln Asp Glu Ile Tyr Glu Glu Ala Ser Ser Glu Glu
 245 250 255
 Glu Asp Ser Tyr Ser Arg Cys Pro Ala Ile Thr Gln Asn Asn Phe Leu
 260 265 270

Thr

<210> 1822

<211> 273

<212> PRT

<213> Homo sapiens

<400> 1822

Met Leu Phe Phe Cys Gly Asp Leu Leu Ser Arg Ser Gln Ile Phe Tyr
 1 5 10 15

Tyr Ser Thr Gly Met Thr Val Gly Ile Val Ala Ser Leu Leu Ile Ile
 20 25 30

Ile Phe Ile Leu Ser Lys Phe Met Pro Lys Lys Ser Pro Ile Tyr Val
 35 40 45

Ile Leu Val Gly Gly Trp Ser Phe Ser Leu Tyr Leu Ile Gln Leu Val
 50 55 60

Phe Lys Asn Leu Gln Glu Ile Trp Arg Cys Tyr Trp Gln Tyr Leu Leu
 65 70 75 80

Ser Tyr Val Leu Thr Val Gly Phe Met Ser Phe Ala Val Cys Tyr Lys
 85 90 95

Tyr Gly Pro Leu Glu Asn Glu Arg Ser Ile Asn Leu Leu Thr Trp Thr
 100 105 110

1169

Leu Gln Leu Met Gly Leu Cys Phe Met Tyr Ser Gly Ile Gln Ile Pro
 115 120 125
 His Ile Ala Leu Ala Ile Ile Ile Ala Leu Cys Thr Lys Asn Leu
 130 135 140
 Glu His Pro Ile Gln Trp Leu Tyr Ile Thr Cys Arg Lys Val Cys Lys
 145 150 155 160
 Gly Ala Glu Lys Pro Val Pro Pro Arg Leu Leu Thr Glu Glu Glu Tyr
 165 170 175
 Arg Ile Gln Gly Glu Val Glu Thr Arg Lys Ala Leu Glu Glu Leu Arg
 180 185 190
 Glu Phe Cys Asn Ser Pro Asp Cys Ser Ala Trp Lys Thr Val Ser Arg
 195 200 205
 Ile Gln Ser Pro Lys Arg Phe Ala Asp Phe Val Glu Gly Ser Ser His
 210 215 220
 Leu Thr Pro Asn Glu Val Ser Val His Glu Gln Glu Tyr Gly Leu Gly
 225 230 235 240
 Ser Ile Ile Ala Gln Asp Glu Ile Tyr Glu Glu Ala Ser Ser Glu Glu
 245 250 255
 Glu Asp Ser Tyr Ser Arg Cys Pro Ala Ile Thr Gln Asn Asn Phe Leu
 260 265 270
 Thr

<210> 1823

<211> 105

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (69)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1823

Met Phe Ala Leu Ala Trp Lys Val Ile Phe Ser Val Met Leu Gln Asn
 1 5 10 15

Pro Ile Arg Tyr Pro Ser Val Leu Gly Ile Lys Ser Ser Leu Leu Ser
 20 25 30

Ser Leu Val Leu Val Met Val Trp Gly Asn Glu Lys Ser Gly Pro Cys
 35 40 45

Pro Thr Pro Lys Ser Arg Lys Gly Arg Arg Ser Cys Pro Ala Gln Val
 50 55 60

Gly Arg Gly Glu Xaa Gly Ser Tyr Trp Asp Pro Glu Phe Arg Leu Ser
 1170

65	70	75	80
Arg Lys Ser Asn Gln Gly Leu Arg Arg Asp Tyr Leu Ser Leu Tyr His			
	85	90	95
Phe Asn Leu His Phe Arg Asp Thr Phe			
	100	105	

<210> 1824
 <211> 105
 <212> PRT
 <213> Homo sapiens

<400> 1824
 Met Phe Ala Leu Ala Trp Lys Val Ile Phe Ser Val Met Leu Gln Asn
 1 5 10 15
 Pro Ile Arg Tyr Pro Ser Val Leu Gly Ile Lys Ser Ser Leu Leu Ser
 20 25 30
 Ser Leu Val Leu Val Met Val Trp Gly Asn Glu Lys Ser Gly Pro Cys
 35 40 45
 Pro Thr Pro Lys Ser Arg Lys Gly Arg Arg Ser Cys Pro Ala Gln Val
 50 55 60
 Gly Arg Gly Glu Glu Gly Ser Tyr Trp Asp Pro Glu Phe Arg Leu Ser
 65 70 75 80
 Arg Lys Ser Asn Gln Gly Leu Arg Arg Asp Tyr Leu Ser Leu Tyr His
 85 90 95
 Phe Asn Leu His Phe Arg Asp Thr Phe
 100 105

<210> 1825
 <211> 94
 <212> PRT
 <213> Homo sapiens

<400> 1825
 Met Leu Leu Gly Phe Leu Val Leu Ile Pro Trp Gly Ser Leu Ile Leu
 1 5 10 15
 Gly Ser Ser Asp Leu Asp Pro Ser Ser Leu Pro Leu Gly Thr Arg Gly
 20 25 30
 His Gly Trp Arg Trp Pro Pro Leu Ser Pro Val Gln Ile Leu Tyr Pro
 35 40 45
 Leu Ala Gly Asp Pro His Ala Ala Val Ser Cys Ser Cys Cys Gly Glu
 50 55 60
 Thr Glu Leu Arg Ala Leu Leu Thr Gly Ser Leu Pro Met Glu Ala Phe
 65 70 75 80

Ser Gly Leu His Ser Ile Glu Tyr Ser Ser Arg Thr Ala Cys
 85 90

<210> 1826

<211> 94

<212> PRT

<213> Homo sapiens

<400> 1826

Met Leu Leu Gly Phe Leu Val Leu Ile Pro Trp Gly Ser Leu Ile Leu
 1 5 10 15

Gly Ser Ser Asp Leu Asp Pro Ser Ser Leu Pro Leu Gly Thr Arg Gly
 20 25 30

His Gly Trp Arg Trp Pro Pro Leu Ser Pro Val Gln Ile Leu Tyr Pro
 35 40 45

Leu Ala Gly Asp Pro His Ala Ala Val Ser Cys Ser Cys Cys Gly Glu
 50 55 60

Thr Glu Leu Arg Ala Leu Leu Thr Gly Ser Leu Pro Met Glu Ala Phe
 65 70 75 80

Ser Gly Leu His Ser Ile Glu Tyr Ser Ser Arg Thr Ala Cys
 85 90

<210> 1827

<211> 261

<212> PRT

<213> Homo sapiens

<400> 1827

Met Ala Val Thr Ala Cys Gln Gly Leu Gly Phe Val Val Ser Leu Ile
 1 5 10 15

Gly Ile Ala Gly Ile Ile Ala Ala Thr Cys Met Asp Gln Trp Ser Thr
 20 25 30

Gln Asp Leu Tyr Asn Asn Pro Val Thr Ala Val Phe Asn Tyr Gln Gly
 35 40 45

Leu Trp Arg Ser Cys Val Arg Glu Ser Ser Gly Phe Thr Glu Cys Arg
 50 55 60

Gly Tyr Phe Thr Leu Leu Gly Leu Pro Ala Met Leu Gln Ala Val Arg
 65 70 75 80

Ala Leu Met Ile Val Gly Ile Val Leu Gly Ala Ile Gly Leu Leu Val
 85 90 95

Ser Ile Phe Ala Leu Lys Cys Ile Arg Ile Gly Ser Met Glu Asp Ser
 100 105 110

Ala Lys Ala Asn Met Thr Leu Thr Ser Gly Ile Met Phe Ile Val Ser
 115 120 125

Gly Leu Cys Ala Ile Ala Gly Val Ser Val Phe Ala Asn Met Leu Val
 130 135 140
 Thr Asn Phe Trp Met Ser Thr Ala Asn Met Tyr Thr Gly Met Gly Gly
 145 150 155 160
 Met Val Gln Thr Val Gln Thr Arg Tyr Thr Phe Gly Ala Ala Leu Phe
 165 170 175
 Val Gly Trp Val Ala Gly Gly Leu Thr Leu Ile Gly Gly Val Met Met
 180 185 190
 Cys Ile Ala Cys Arg Gly Leu Ala Pro Glu Glu Thr Asn Tyr Lys Ala
 195 200 205
 Val Ser Tyr His Ala Ser Gly His Ser Val Ala Tyr Lys Pro Gly Gly
 210 215 220
 Phe Lys Ala Ser Thr Gly Phe Gly Ser Asn Thr Lys Asn Lys Lys Arg
 225 230 235 240
 Tyr Asp Gly Gly Ala Arg Thr Glu Asp Glu Val Gln Ser Tyr Pro Ser
 245 250 255
 Lys His Asp Tyr Val
 260

<210> 1828

<211> 261

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (125)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (127)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1828

Met Ala Val Thr Ala Cys Gln Gly Leu Gly Phe Val Val Ser Leu Ile
 1 5 10 15

Gly Ile Ala Gly Ile Ile Ala Ala Thr Cys Met Asp Gln Trp Ser Thr
 20 25 30

Gln Asp Leu Tyr Asn Asn Pro Val Thr Ala Val Phe Asn Tyr Gln Gly
 35 40 45

Leu Trp Arg Ser Cys Val Arg Glu Ser Ser Gly Phe Thr Glu Cys Arg
 50 55 60

Gly Tyr Phe Thr Leu Leu Gly Leu Pro Ala Met Leu Gln Ala Val Arg
 65 70 75 80

Ala Leu Met Ile Val Gly Ile Val Leu Gly Ala Ile Gly Leu Leu Val
85 90 95

Ser Ile Phe Ala Leu Lys Cys Ile Arg Ile Gly Ser Met Glu Asp Ser
100 105 110

Ala Lys Ala Asn Met Thr Leu Thr Ser Gly Ile Met Xaa Ile Xaa Ser
115 120 125

Gly Leu Cys Ala Ile Ala Gly Val Ser Val Phe Ala Asn Met Leu Val
130 135 140

Thr Asn Phe Trp Met Ser Thr Ala Asn Met Tyr Thr Gly Met Gly Gly
145 150 155 160

Met Val Gln Thr Val Gln Thr Arg Tyr Thr Phe Gly Ala Ala Leu Phe
165 170 175

Val Gly Trp Val Ala Gly Gly Leu Thr Leu Ile Gly Gly Val Met Met
180 185 190

Cys Ile Ala Cys Arg Gly Leu Ala Pro Glu Glu Thr Asn Tyr Lys Ala
195 200 205

Val Ser Tyr His Ala Ser Gly His Ser Val Ala Tyr Lys Pro Gly Gly
210 215 220

Phe Lys Ala Ser Thr Gly Phe Gly Ser Asn Thr Lys Asn Lys Lys Arg
225 230 235 240

Tyr Asp Gly Gly Ala Arg Thr Glu Asp Glu Val Gln Ser Tyr Pro Ser
245 250 255

Lys His Asp Tyr Val
260

<210> 1829

<211> 92

<212> PRT

<213> Homo sapiens

<400> 1829

Met Thr Ser Leu Leu Glu Gly Arg Met Val Leu Cys Val Ser Cys Leu
1 5 10 15

Leu Leu Pro Leu Leu Leu Leu Lys His Phe Asn Gly Leu Met Thr
20 25 30

Pro Tyr Leu Ala His Asn Val Tyr Cys Pro Ile Glu Tyr Ile Ser Phe
35 40 45

Phe Pro Phe His Glu Lys Asn Ile Glu Tyr Ile Ser Ile Trp Phe Ile
50 55 60

Phe Asp Ser Phe Lys Phe Ile Tyr Ser Arg Leu Leu Cys Ile Ser Gln
65 70 75 80

Ile Tyr Val Leu Tyr Arg Ala Tyr Thr Leu Pro His
 85 90

<210> 1830

<211> 92

<212> PRT

<213> Homo sapiens

<400> 1830

Met Thr Ser Leu Leu Glu Gly Arg Met Val Leu Cys Val Ser Cys Leu
 1 5 10 15

Leu Leu Pro Leu Leu Leu Leu Leu Lys His Phe Asn Gly Leu Met Thr
 20 25 30

Pro Tyr Leu Ala His Asn Val Tyr Cys Pro Ile Glu Tyr Ile Ser Phe
 35 40 45

Phe Pro Phe His Glu Lys Asn Ile Glu Tyr Ile Ser Ile Trp Phe Ile
 50 55 60

Phe Asp Ser Phe Lys Phe Ile Tyr Ser Arg Leu Leu Cys Ile Ser Gln
 65 70 75 80

Ile Tyr Val Leu Tyr Arg Ala Tyr Thr Leu Pro His
 85 90

<210> 1831

<211> 92

<212> PRT

<213> Homo sapiens

<400> 1831

Met Thr Ser Leu Leu Glu Gly Arg Met Val Leu Cys Val Ser Cys Leu
 1 5 10 15

Leu Leu Pro Leu Leu Leu Leu Leu Lys His Phe Asn Gly Leu Met Thr
 20 25 30

Pro Tyr Leu Ala His Asn Val Tyr Cys Pro Ile Glu Tyr Ile Ser Phe
 35 40 45

Phe Pro Phe His Glu Lys Asn Ile Glu Tyr Ile Ser Ile Trp Phe Ile
 50 55 60

Phe Asp Ser Phe Lys Phe Ile Tyr Ser Arg Leu Leu Cys Ile Ser Gln
 65 70 75 80

Ile Tyr Val Leu Tyr Arg Ala Tyr Thr Leu Pro His
 85 90

<210> 1832

<211> 270

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (113)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (118)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (157)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (268)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1832

Gly Glu Glu Phe Gln Pro Glu Gly Ser Lys Cys Thr Lys Cys Ser Cys
1 5 10 15

Thr Gly Gly Arg Thr Gln Cys Val Arg Glu Val Cys Pro Ile Leu Ser
20 25 30

Cys Pro Gln His Leu Ser His Ile Pro Pro Gly Gln Cys Cys Pro Lys
35 40 45

Cys Leu Gly Gln Arg Lys Val Phe Asp Leu Pro Phe Gly Ser Cys Leu
50 55 60

Phe Arg Ser Asp Val Tyr Asp Asn Gly Ser Ser Phe Leu Tyr Asp Asn
65 70 75 80

Cys Thr Ala Cys Thr Cys Arg Asp Ser Thr Val Val Cys Lys Arg Lys
85 90 95

Cys Ser His Pro Gly Gly Cys Asp Gln Gly Gln Glu Gly Cys Cys Glu
100 105 110

Xaa Cys Leu Leu Arg Xaa Pro Pro Glu Asp Ile Lys Val Cys Lys Phe
115 120 125

Gly Asn Lys Ile Phe Gln Asp Gly Glu Met Trp Ser Ser Ile Asn Cys
130 135 140

Thr Ile Cys Ala Cys Val Lys Gly Arg Thr Glu Cys Xaa Asn Lys Gln
145 150 155 160

Cys Ile Pro Ile Ser Ser Cys Pro Gln Gly Lys Ile Leu Asn Arg Lys
165 170 175

Gly Cys Cys Pro Ile Cys Thr Glu Lys Pro Gly Val Cys Thr Val Phe
180 185 190

Gly Asp Pro His Tyr Asn Thr Phe Asp Gly Arg Thr Phe Asn Phe Gln

195	200	205
Gly Thr Cys Gln Tyr Val Leu Thr Lys Asp Cys Ser Ser Pro Ala Ser		
210	215	220
Pro Phe Gln Val Leu Val Lys Asn Asp Ala Arg Arg Thr Arg Ser Phe		
225	230	235 240
Ser Trp Thr Lys Ser Val Glu Leu Val Leu Gly Glu Thr Gly Ser Ala		
245	250	255
Cys Ser Ser Thr Ser Pro Cys Ala Gly Thr Ala Xaa Ala Ser		
260	265	270

<210> 1833

<211> 182

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (104)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (147)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (151)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (176)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (179)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1833

Met Leu Trp Phe Ser Gly Val Gly Ala Leu Ala Glu Arg Tyr Cys Arg
1 5 10 15

Arg Ser Pro Gly Ile Thr Cys Cys Val Leu Leu Leu Leu Asn Cys Ser
20 25 30

Gly Val Pro Met Ser Leu Ala Ser Ser Phe Leu Thr Gly Ser Val Ala
35 40 45

Lys Cys Glu Asn Glu Gly Glu Val Leu Gln Ile Pro Phe Ile Thr Asp
50 55 60

Asn Pro Cys Ile Met Cys Val Cys Leu Asn Lys Glu Val Thr Cys Lys

65		70		75		80									
Arg	Glu	Lys	Cys	Pro	Val	Leu	Ser	Arg	Asp	Cys	Ala	Leu	Ala	Ile	Lys
				85					90					95	
Gln	Arg	Gly	Ala	Cys	Cys	Glu	Xaa	Cys	Lys	Gly	Cys	Thr	Tyr	Glu	Gly
			100					105					110		
Asn	Thr	Tyr	Asn	Ser	Ser	Phe	Lys	Trp	Gln	Ser	Pro	Ala	Glu	Pro	Cys
		115					120					125			
Val	Leu	Arg	Gln	Cys	Gln	Glu	Gly	Val	Val	Thr	Glu	Ser	Gly	Val	Arg
	130					135					140				
Cys	Val	Xaa	His	Cys	Lys	Xaa	Pro	Leu	Glu	His	Leu	Gly	Met	Cys	Cys
145					150					155					160
Pro	Thr	Cys	Pro	Gly	Cys	Val	Phe	Glu	Gly	Val	Gln	Tyr	Gln	Glu	Xaa
				165					170					175	
Glu	Glu	Xaa	Gln	Pro	Glu										
			180												

<210> 1834

<211> 47

<212> PRT

<213> Homo sapiens

<400> 1834

Ser	Ser	Ser	Leu	Leu	Ile	Ile	Tyr	Val	Cys	Met	Met	Asp	Val	Thr	Ile
1				5					10					15	

Tyr	Met	Ser	Cys	Val	Glu	Ile	Lys	Gly	Cys	Leu	Asp	Ala	Met	Leu	Ile
			20					25					30		

Leu	Leu	Ser	Met	Arg	Lys	Tyr	Leu	Lys	Lys	Leu	Leu	His	Asn	Ile	
		35					40					45			

<210> 1835

<211> 445

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (147)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (288)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (293)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (332)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (443)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1835

Met	Leu	Trp	Phe	Ser	Gly	Val	Gly	Ala	Leu	Ala	Glu	Arg	Tyr	Cys	Arg	1	5	10	15
Arg	Ser	Pro	Gly	Ile	Thr	Cys	Cys	Val	Leu	Leu	Leu	Leu	Asn	Cys	Ser	20	25	30	
Gly	Val	Pro	Met	Ser	Leu	Ala	Ser	Ser	Phe	Leu	Thr	Gly	Ser	Val	Ala	35	40	45	
Lys	Cys	Glu	Asn	Glu	Gly	Glu	Val	Leu	Gln	Ile	Pro	Phe	Ile	Thr	Asp	50	55	60	
Asn	Pro	Cys	Ile	Met	Cys	Val	Cys	Leu	Asn	Lys	Glu	Val	Thr	Cys	Lys	65	70	75	80
Arg	Glu	Lys	Cys	Pro	Val	Leu	Ser	Arg	Asp	Cys	Ala	Leu	Ala	Ile	Lys	85	90	95	
Gln	Arg	Gly	Ala	Cys	Cys	Glu	Gln	Cys	Lys	Gly	Cys	Thr	Tyr	Glu	Gly	100	105	110	
Asn	Thr	Tyr	Asn	Ser	Ser	Phe	Lys	Trp	Gln	Ser	Pro	Ala	Glu	Pro	Cys	115	120	125	
Val	Leu	Arg	Gln	Cys	Gln	Glu	Gly	Val	Val	Thr	Glu	Ser	Gly	Val	Arg	130	135	140	
Cys	Val	Xaa	His	Cys	Lys	Asn	Pro	Leu	Glu	His	Leu	Gly	Met	Cys	Cys	145	150	155	160
Pro	Thr	Cys	Pro	Gly	Cys	Val	Phe	Glu	Gly	Val	Gln	Tyr	Gln	Glu	Gly	165	170	175	
Glu	Glu	Phe	Gln	Pro	Glu	Gly	Ser	Lys	Cys	Thr	Lys	Cys	Ser	Cys	Thr	180	185	190	
Gly	Gly	Arg	Thr	Gln	Cys	Val	Arg	Glu	Val	Cys	Pro	Ile	Leu	Ser	Cys	195	200	205	
Pro	Gln	His	Leu	Ser	His	Ile	Pro	Pro	Gly	Gln	Cys	Cys	Pro	Lys	Cys	210	215	220	
Leu	Gly	Gln	Arg	Lys	Val	Phe	Asp	Leu	Pro	Phe	Gly	Ser	Cys	Leu	Phe	225	230	235	240
Arg	Ser	Asp	Val	Tyr	Asp	Asn	Gly	Ser	Ser	Phe	Leu	Tyr	Asp	Asn	Cys	245	250	255	

Thr Ala Cys Thr Cys Arg Asp Ser Thr Val Val Cys Lys Arg Lys Cys
 260 265 270
 Ser His Pro Gly Gly Cys Asp Gln Gly Gln Glu Gly Cys Cys Glu Xaa
 275 280 285
 Cys Leu Leu Arg Xaa Pro Pro Glu Asp Ile Lys Val Cys Lys Phe Gly
 290 295 300
 Asn Lys Ile Phe Gln Asp Gly Glu Met Trp Ser Ser Ile Asn Cys Thr
 305 310 315 320
 Ile Cys Ala Cys Val Lys Gly Arg Thr Glu Cys Xaa Asn Lys Gln Cys
 325 330 335
 Ile Pro Ile Ser Ser Cys Pro Gln Gly Lys Ile Leu Asn Arg Lys Gly
 340 345 350
 Cys Cys Pro Ile Cys Thr Glu Lys Pro Gly Val Cys Thr Val Phe Gly
 355 360 365
 Asp Pro His Tyr Asn Thr Phe Asp Gly Arg Thr Phe Asn Phe Gln Gly
 370 375 380
 Thr Cys Gln Tyr Val Leu Thr Lys Asp Cys Ser Ser Pro Ala Ser Pro
 385 390 395 400
 Phe Gln Val Leu Val Lys Asn Asp Ala Arg Arg Thr Arg Ser Phe Ser
 405 410 415
 Trp Thr Lys Ser Val Glu Leu Val Leu Gly Glu Thr Gly Ser Ala Cys
 420 425 430
 Ser Ser Thr Ser Pro Cys Ala Gly Thr Ala Xaa Ala Ser
 435 440 445

<210> 1836

<211> 370

<212> PRT

<213> Homo sapiens

<400> 1836

Leu Gly Gly Ala Arg Val Arg Arg Ala Val Gly Leu Ser Gly Thr Gly
 1 5 10 15
 Ala Glu Ala Gly Arg Ala Gly Ala Met Val Glu Lys Glu Glu Ala Gly
 20 25 30
 Gly Gly Ile Ser Glu Glu Glu Ala Ala Gln Tyr Asp Arg Gln Ile Arg
 35 40 45
 Leu Trp Gly Leu Glu Ala Gln Lys Arg Leu Arg Ala Ser Arg Val Leu
 50 55 60
 Leu Val Gly Leu Lys Gly Leu Gly Ala Glu Ile Ala Lys Asn Leu Ile
 65 70 75 80

Leu Ala Gly Val Lys Gly Leu Thr Met Leu Asp His Glu Gln Val Thr
 85 90 95
 Pro Glu Asp Pro Gly Ala Gln Phe Leu Ile Arg Thr Gly Ser Val Gly
 100 105 110
 Arg Asn Arg Ala Glu Ala Ser Leu Glu Arg Ala Gln Asn Leu Asn Pro
 115 120 125
 Met Val Asp Val Lys Val Asp Thr Glu Asp Ile Glu Lys Lys Pro Glu
 130 135 140
 Ser Phe Phe Thr Gln Phe Asp Ala Val Cys Leu Thr Cys Cys Ser Arg
 145 150 155 160
 Asp Val Ile Val Lys Val Asp Gln Ile Cys His Lys Asn Ser Ile Lys
 165 170 175
 Phe Phe Thr Gly Asp Val Phe Gly Tyr His Gly Tyr Thr Phe Ala Asn
 180 185 190
 Leu Gly Glu His Glu Phe Val Glu Glu Lys Thr Lys Val Ala Lys Val
 195 200 205
 Ser Gln Gly Val Glu Asp Gly Pro Asp Thr Lys Arg Ala Lys Leu Asp
 210 215 220
 Ser Ser Glu Thr Thr Met Val Lys Lys Lys Val Val Phe Cys Pro Val
 225 230 235 240
 Lys Glu Ala Leu Glu Val Asp Trp Ser Ser Glu Lys Ala Lys Ala Ala
 245 250 255
 Leu Lys Arg Thr Thr Ser Asp Tyr Phe Leu Leu Gln Val Leu Leu Lys
 260 265 270
 Phe Arg Thr Asp Lys Gly Arg Asp Pro Ser Ser Asp Thr Tyr Glu Glu
 275 280 285
 Asp Ser Glu Leu Leu Leu Gln Ile Arg Asn Asp Val Leu Asp Ser Leu
 290 295 300
 Gly Ile Ser Pro Asp Leu Leu Pro Glu Asp Phe Val Arg Tyr Cys Phe
 305 310 315 320
 Ser Glu Met Ala Pro Val Cys Ala Val Val Gly Gly Ile Leu Ala Gln
 325 330 335
 Glu Ile Val Lys Ala Leu Ser Gln Arg Asp Pro Pro His Asn Asn Phe
 340 345 350
 Phe Phe Phe Asp Gly Met Lys Gly Asn Gly Ile Val Glu Cys Leu Gly
 355 360 365
 Pro Lys
 370

<210> 1837

<211> 42
 <212> PRT
 <213> Homo sapiens

<400> 1837
 Met Val Pro Ser Val Thr Leu Ile Leu His Cys Pro Gly Phe Ser Thr
 1 5 10 15
 Glu Ser His Met Cys Gly Lys Pro Leu Ser Pro Arg Pro Thr Arg Thr
 20 25 30
 Val Gly Arg Pro Val Ser Asn Ile Pro Val
 35 40

<210> 1838
 <211> 89
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (17)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (47)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1838
 Val Gln Gly Val Val Gln Ala Leu Lys Thr Asp His Ala Phe Cys Pro
 1 5 10 15
 Xaa Leu Gln Gly Thr Glu Ser Ile Arg Leu Arg Ile Leu Glu Phe Glu
 20 25 30
 Leu Asn Gln Val Arg Ser Val Ser Gln Glu Leu Pro Pro Gly Xaa Pro
 35 40 45
 Glu Ser Pro Gln Thr Asp Gly Gln Pro Pro Arg Ala Trp Pro Gln Leu
 50 55 60
 Gly Met Pro Ser Asn Pro Thr Cys Phe Ser Phe Leu Pro Gly Tyr Ser
 65 70 75 80
 Gly Leu Arg Ser Ser Ala Leu Asn Phe
 85

<210> 1839
 <211> 346
 <212> PRT
 <213> Homo sapiens

<400> 1839
 Met Val Glu Lys Glu Glu Ala Gly Gly Gly Ile Ser Glu Glu Glu Ala
 1 5 10 15

Ala Gln Tyr Asp Arg Gln Ile Arg Leu Trp Gly Leu Glu Ala Gln Lys
 20 25 30
 Arg Leu Arg Ala Ser Arg Val Leu Leu Val Gly Leu Lys Gly Leu Gly
 35 40 45
 Ala Glu Ile Ala Lys Asn Leu Ile Leu Ala Gly Val Lys Gly Leu Thr
 50 55 60
 Met Leu Asp His Glu Gln Val Thr Pro Glu Asp Pro Gly Ala Gln Phe
 65 70 75 80
 Leu Ile Arg Thr Gly Ser Val Gly Arg Asn Arg Ala Glu Ala Ser Leu
 85 90 95
 Glu Arg Ala Gln Asn Leu Asn Pro Met Val Asp Val Lys Val Asp Thr
 100 105 110
 Glu Asp Ile Glu Lys Lys Pro Glu Ser Phe Phe Thr Gln Phe Asp Ala
 115 120 125
 Val Cys Leu Thr Cys Cys Ser Arg Asp Val Ile Val Lys Val Asp Gln
 130 135 140
 Ile Cys His Lys Asn Ser Ile Lys Phe Phe Thr Gly Asp Val Phe Gly
 145 150 155 160
 Tyr His Gly Tyr Thr Phe Ala Asn Leu Gly Glu His Glu Phe Val Glu
 165 170 175
 Glu Lys Thr Lys Val Ala Lys Val Ser Gln Gly Val Glu Asp Gly Pro
 180 185 190
 Asp Thr Lys Arg Ala Lys Leu Asp Ser Ser Glu Thr Thr Met Val Lys
 195 200 205
 Lys Lys Val Val Phe Cys Pro Val Lys Glu Ala Leu Glu Val Asp Trp
 210 215 220
 Ser Ser Glu Lys Ala Lys Ala Ala Leu Lys Arg Thr Thr Ser Asp Tyr
 225 230 235 240
 Phe Leu Leu Gln Val Leu Leu Lys Phe Arg Thr Asp Lys Gly Arg Asp
 245 250 255
 Pro Ser Ser Asp Thr Tyr Glu Glu Asp Ser Glu Leu Leu Leu Gln Ile
 260 265 270
 Arg Asn Asp Val Leu Asp Ser Leu Gly Ile Ser Pro Asp Leu Leu Pro
 275 280 285
 Glu Asp Phe Val Arg Tyr Cys Phe Ser Glu Met Ala Pro Val Cys Ala
 290 295 300
 Val Val Gly Gly Ile Leu Ala Gln Glu Ile Val Lys Ala Leu Ser Gln
 305 310 315 320
 Arg Asp Pro Pro His Asn Asn Phe Phe Phe Phe Asp Gly Met Lys Gly
 325 330 335

Asn Gly Ile Val Glu Cys Leu Gly Pro Lys
 340 345

<210> 1840

<211> 155

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (92)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (105)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (125)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (130)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1840

Met Gln His Gln Leu His Leu Leu Ile Cys Trp Gly Lys Gly Ser Lys
 1 5 10 15

Ser Asn Thr Ser Cys Leu Gly Pro Val Leu Ser Cys Ser Asn Met Trp
 20 25 30

Ser Leu Ala Leu Leu Val Val Ala Gly Ser Met Gly Val Ala Tyr Ser
 35 40 45

Ser Val Val Met Tyr Val Leu Leu Trp Val Pro Leu Pro Leu Pro Ser
 50 55 60

His Phe Leu Pro Ser Gly Ala Pro Glu Ala Gln Pro Thr Thr Trp Ala
 65 70 75 80

Gln Ser Pro His Ser Val Cys Lys Cys Gly Thr Xaa Leu Gly Pro Ala
 85 90 95

Lys Pro Gln Gly Pro Ser Leu Pro Xaa Pro Pro Cys Leu Ile Met Leu
 100 105 110

Leu Ser Cys Arg Arg Gln Leu Gly Leu Ala Pro Ser Xaa Trp Leu Pro
 115 120 125

Gly Xaa Gly Ser His Gly Gly Glu Leu Arg Gly Cys Ser Gln Gly Trp
 130 135 140

Ala Pro Gly Ile Ala His Leu Asn Ile Cys Thr

1184

145

150

155

<210> 1841

<211> 42

<212> PRT

<213> Homo sapiens

<400> 1841

Tyr Thr Phe Gln Cys Leu Ser Gln Thr Cys Ser Tyr Asp Ile Lys Cys
 1 5 10 15

Tyr Phe Leu Val Ala Lys Ile Ile Leu Asp Ser Val Ile Lys Val Tyr
 20 25 30

Trp Asn Leu Asn Phe Lys Met Ser Pro Asp
 35 40

<210> 1842

<211> 265

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (22)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1842

Pro Lys Leu Glu Leu His Arg Gly Gly Gly Arg Ser Arg Thr Ser Gly
 1 5 10 15

Ser Pro Gly Leu Gln Xaa Phe Gly Thr Arg Arg Thr Arg Gly Arg Ser
 20 25 30

Gly Arg Ala Gln Gly Arg Leu Lys Arg Pro Gly Lys Leu Ala Cys Arg
 35 40 45

Lys Phe Pro Gly Arg Arg Gln Arg Val Val Pro Glu Leu Thr Asp Val
 50 55 60

Leu Met Asn Glu Ile Leu His Gly Ala Asp Gly Thr Ser Ile Lys Cys
 65 70 75 80

Gly Ile Ile Gly Glu Ile Gly Cys Ser Trp Pro Leu Thr Glu Ser Glu
 85 90 95

Arg Lys Val Leu Gln Ala Thr Ala His Ala Gln Ala Gln Leu Gly Cys
 100 105 110

Pro Val Ile Ile His Pro Gly Arg Ser Ser Arg Ala Pro Phe Gln Ile
 115 120 125

Ile Arg Ile Leu Gln Glu Ala Gly Ala Asp Ile Ser Lys Thr Val Met
 130 135 140

Ser His Leu Asp Arg Thr Ile Leu Asp Lys Lys Glu Leu Leu Glu Phe

1185

145 150 155 160
 Ala Gln Leu Gly Cys Tyr Leu Glu Tyr Asp Leu Phe Gly Thr Glu Leu
 165 170 175
 Leu His Tyr Gln Leu Gly Pro Asp Ile Asp Met Pro Asp Asp Asn Lys
 180 185 190
 Arg Ile Arg Arg Val Arg Leu Leu Val Glu Glu Gly Cys Glu Asp Arg
 195 200 205
 Ile Leu Val Ala His Asp Ile His Thr Lys Thr Arg Leu Met Lys Tyr
 210 215 220
 Gly Gly His Gly Tyr Ser His Ile Leu Thr Asn Val Val Pro Lys Met
 225 230 235 240
 Leu Leu Arg Gly Ile Thr Glu Asn Val Leu Asp Lys Ile Leu Ile Glu
 245 250 255
 Asn Pro Lys Gln Trp Leu Thr Phe Lys
 260 265

<210> 1843

<211> 503

<212> PRT

<213> Homo sapiens

<400> 1843

Met Glu Gln Arg His Val Leu Leu Lys Gln Lys Glu Leu Gly Gly Glu
 1 5 10 15
 Glu Pro Glu Pro Ser Leu Arg Glu Gly Pro Gly Gly Leu Val Met Glu
 20 25 30
 Gly His Leu Phe Lys Arg Ala Ser Asn Ala Phe Lys Thr Trp Ser Arg
 35 40 45
 Arg Trp Phe Thr Ile Gln Ser Asn Gln Leu Val Tyr Gln Lys Lys Tyr
 50 55 60
 Lys Asp Pro Val Thr Val Val Val Asp Asp Leu Arg Leu Cys Thr Val
 65 70 75 80
 Lys Leu Cys Pro Asp Ser Glu Arg Arg Phe Cys Phe Glu Val Val Ser
 85 90 95
 Thr Ser Lys Ser Cys Leu Leu Gln Ala Asp Ser Glu Arg Leu Leu Gln
 100 105 110
 Leu Trp Val Ser Ala Val Gln Ser Ser Ile Ala Ser Ala Phe Ser Gln
 115 120 125
 Ala Arg Leu Asp Asp Ser Pro Arg Gly Pro Gly Gln Gly Ser Gly His
 130 135 140
 Leu Ala Ile Gly Ser Ala Ala Thr Leu Gly Ser Gly Gly Met Ala Arg
 145 150 155 160

Gly Arg Glu Pro Gly Gly Val Gly His Val Val Ala Gln Val Gln Ser
 165 170 175
 Val Asp Gly Asn Ala Gln Cys Cys Asp Cys Arg Glu Pro Ala Pro Glu
 180 185 190
 Trp Ala Ser Ile Asn Leu Gly Val Thr Leu Cys Ile Gln Cys Ser Gly
 195 200 205
 Ile His Arg Ser Leu Gly Val His Phe Ser Lys Val Arg Ser Leu Thr
 210 215 220
 Leu Asp Ser Trp Glu Pro Glu Leu Val Lys Leu Met Cys Glu Leu Gly
 225 230 235 240
 Asn Val Ile Ile Asn Gln Ile Tyr Glu Ala Arg Val Glu Ala Met Ala
 245 250 255
 Val Lys Lys Pro Gly Pro Ser Cys Ser Arg Gln Glu Lys Glu Ala Trp
 260 265 270
 Ile His Ala Lys Tyr Val Glu Lys Lys Phe Leu Thr Lys Leu Pro Glu
 275 280 285
 Ile Arg Gly Arg Arg Gly Gly Arg Gly Arg Pro Arg Gly Gln Pro Pro
 290 295 300
 Val Pro Pro Lys Pro Ser Ile Arg Pro Arg Pro Gly Ser Leu Arg Ser
 305 310 315 320
 Lys Pro Glu Pro Pro Ser Glu Asp Leu Gly Ser Leu His Pro Gly Ala
 325 330 335
 Leu Leu Phe Arg Ala Ser Gly His Pro Pro Ser Leu Pro Thr Met Ala
 340 345 350
 Asp Ala Leu Ala His Gly Ala Asp Val Asn Trp Val Asn Gly Gly Gln
 355 360 365
 Asp Asn Ala Thr Pro Leu Ile Gln Ala Thr Ala Ala Asn Ser Leu Leu
 370 375 380
 Ala Cys Glu Phe Leu Leu Gln Asn Gly Ala Asn Val Asn Gln Ala Asp
 385 390 395 400
 Ser Ala Gly Arg Gly Pro Leu His His Ala Thr Ile Leu Gly His Thr
 405 410 415
 Gly Leu Ala Cys Leu Phe Leu Lys Arg Gly Ala Asp Leu Gly Ala Arg
 420 425 430
 Asp Ser Glu Gly Arg Asp Pro Leu Thr Ile Ala Met Glu Thr Ala Asn
 435 440 445
 Ala Asp Ile Val Thr Leu Leu Arg Leu Ala Lys Met Arg Glu Ala Glu
 450 455 460
 Ala Ala Gln Gly Gln Ala Gly Asp Glu Thr Tyr Leu Asp Ile Phe Arg
 465 470 475 480

Asp Phe Ser Leu Met Ala Ser Asp Asp Pro Glu Lys Leu Ser Arg Arg
485 490 495

Ser His Asp Leu His Thr Leu
500

<210> 1844

<211> 25

<212> PRT

<213> Homo sapiens

<400> 1844

Met Ser Pro Ser Ile Arg Ile Leu Leu Val Leu Gln Gln Leu Gly Ser
1 5 10 15

Leu Met Ala Pro Leu Pro Ser Ala His
20 25

<210> 1845

<211> 25

<212> PRT

<213> Homo sapiens

<400> 1845

Met Ser Pro Ser Ile Arg Ile Leu Leu Val Leu Gln Gln Leu Gly Ser
1 5 10 15

Leu Met Ala Pro Leu Pro Ser Ala His
20 25

<210> 1846

<211> 6

<212> PRT

<213> Homo sapiens

<400> 1846

Val Phe Gln Ile Tyr Leu
1 5

<210> 1847

<211> 6

<212> PRT

<213> Homo sapiens

<400> 1847

Val Phe Gln Ile Tyr Leu
1 5

<210> 1848

<211> 107
 <212> PRT
 <213> Homo sapiens

<400> 1848

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Met Leu Val Leu Leu Leu Asp Phe Leu Gly Leu Val His Leu Gly Gln
 1             5             10             15
Leu Leu Ile Phe His Ile Tyr Leu Lys Ala Lys Lys Met Thr Thr Phe
                20             25             30
Glu Tyr Leu Ile Asn Asn Arg Lys Glu Glu Ser Ser Lys His Gln Ala
                35             40             45
Val Arg Lys Asp Pro Tyr Val Gln Met Asp Lys Gly Val Leu Gln Gln
                50             55             60
Gly Ala Gly Ala Leu Gly Ser Ser Ala Gln Gly Val Lys Ala Lys Ser
 65             70             75             80
Ser Leu Leu Ile His Lys His Leu Cys His Phe Cys Thr Ser Val Asn
                85             90             95
Gln Asp Gly Asp Ser Thr Ala Arg Val His Leu
                100             105

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<210> 1849
 <211> 245
 <212> PRT
 <213> Homo sapiens

<400> 1849

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Met Leu Gln Ala Arg Asn Gln Ser Pro Ser Ser Gln Arg Pro Leu Asp
 1             5             10             15
Val Leu Arg Arg Asn Gln Asp Pro Gln Ser Pro Ala Ser Ile Ser Val
                20             25             30
Ile Ile Phe Ile Thr Pro Lys Glu Glu Pro Ala Leu Gln Glu Gly Leu
 35             40             45
His Leu Gln Glu Asp Gly Leu Pro Ala Thr Ala Glu Asp Ala Ala Thr
 50             55             60
Cys Leu Thr Val Leu Ser Ser Gln Pro Ala Ser Cys Arg Ala Ser Cys
 65             70             75             80
Cys Leu Arg Ala Asp Gly Pro Gly Met Leu Ala His Thr Cys Glu His
                85             90             95
Ser Thr Gly Lys Trp Glu His Ser Thr Arg Lys Trp Glu His Ser Thr
                100             105             110
Gly Lys Trp Glu His Ser Thr Gly Lys Trp Gly Leu Thr Ala Leu Gln
                115             120             125
Asn Gly Ser Thr Val Leu Gly Asn Gly Ser Thr Val Leu Gly Ser Gly
                130             135             140

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Ser Thr Val Leu Arg Ser Gly Ser Thr Val Leu Arg Asn Gly Ser Thr
 145 150 155 160

Leu Leu Arg Asn Gly Ser Thr Val Leu Gly Asn Gly His Thr Val Leu
 165 170 175

Gly Asn Gly His Thr Val Leu Arg Asn Gly Ser Thr Val Leu Gly Asn
 180 185 190

Gly Ser Thr Val Leu Gly Asn Gly Ser Pro Gln Tyr Trp Glu Arg Gly
 195 200 205

Val His Ser Thr Arg Lys Trp Glu His Ser Thr Gly Lys Trp Glu His
 210 215 220

Ser Thr Gly Lys Trp Glu His Ser Thr Gly Lys Pro Gln Thr Trp Ile
 225 230 235 240

Leu Ser Phe Ser Ala
 245

<210> 1850
 <211> 209
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (136)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (161)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (169)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (197)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1850
 Met Ala Met Gly Leu Phe Arg Val Cys Leu Val Val Val Thr Ala Ile
 1 5 10 15

Ile Asn His Pro Leu Leu Phe Pro Arg Glu Asn Ala Thr Val Pro Glu
 20 25 30

Asn Glu Glu Glu Ile Ile Arg Lys Met Gln Ala His Gln Glu Lys Leu
 35 40 45

Gln Leu Glu Gln Leu Arg Leu Glu Glu Glu Val Ala Arg Leu Ala Ala

50 55 60
 Glu Lys Glu Ala Leu Glu Gln Val Ala Glu Glu Gly Arg Gln Gln Asn
 65 70 75 80
 Glu Thr Arg Val Ala Trp Asp Leu Trp Ser Thr Leu Cys Met Ile Leu
 85 90 95
 Phe Leu Met Ile Glu Val Trp Arg Gln Asp His Gln Glu Gly Pro Ser
 100 105 110
 Pro Glu Cys Leu Gly Gly Glu Glu Asp Glu Leu Pro Gly Trp Gly Ala
 115 120 125
 Pro Pro Cys Arg Ala Ser Pro Xaa Pro Thr Arg His Ala Cys His Phe
 130 135 140
 Tyr Glu Arg Cys Ile Arg Gly Ala Thr Ala Asp Ala Ala Arg Thr Arg
 145 150 155 160
 Xaa Phe Leu Glu Gly Phe Val Asp Xaa Leu Leu Glu Ala Leu Arg Ser
 165 170 175
 Leu Cys Asn Arg Asp Thr Asp Met Glu Val Glu Asp Phe Ile Gly Val
 180 185 190
 Asp Ser Met Tyr Xaa Asn Trp Gln Val Asp Arg Pro Leu Leu Cys His
 195 200 205
 Leu

<210> 1851

<211> 547

<212> PRT

<213> Homo sapiens

<400> 1851

Met Ala Met Gly Leu Phe Arg Val Cys Leu Val Val Val Thr Ala Ile
 1 5 10 15
 Ile Asn His Pro Leu Leu Phe Pro Arg Glu Asn Ala Thr Val Pro Glu
 20 25 30
 Asn Glu Glu Glu Ile Ile Arg Lys Met Gln Ala His Gln Glu Lys Leu
 35 40 45
 Gln Leu Glu Gln Leu Arg Leu Glu Glu Glu Val Ala Arg Leu Ala Ala
 50 55 60
 Glu Lys Glu Ala Leu Glu Gln Val Ala Glu Glu Gly Arg Gln Gln Asn
 65 70 75 80
 Glu Thr Arg Val Ala Trp Asp Leu Trp Ser Thr Leu Cys Met Ile Leu
 85 90 95
 Phe Leu Met Ile Glu Val Trp Arg Gln Asp His Gln Glu Gly Pro Ser
 100 105 110

Pro Glu Cys Leu Gly Gly Glu Glu Asp Glu Leu Pro Gly Leu Gly Gly
 115 120 125
 Ala Pro Leu Gln Gly Leu Thr Leu Pro Asn Lys Ala Thr Leu Gly His
 130 135 140
 Phe Tyr Glu Arg Cys Ile Arg Gly Ala Thr Ala Asp Ala Ala Arg Thr
 145 150 155 160
 Arg Glu Phe Leu Glu Gly Phe Val Asp Asp Leu Leu Glu Ala Leu Arg
 165 170 175
 Ser Leu Cys Asn Arg Asp Thr Asp Met Glu Val Glu Asp Phe Ile Gly
 180 185 190
 Val Asp Ser Met Tyr Glu Asn Trp Gln Val Asp Arg Pro Leu Leu Cys
 195 200 205
 His Leu Phe Val Pro Phe Thr Pro Pro Glu Pro Tyr Arg Phe His Pro
 210 215 220
 Glu Leu Trp Cys Ser Gly Arg Ser Val Pro Leu Asp Arg Gln Gly Tyr
 225 230 235 240
 Gly Gln Ile Lys Val Val Arg Ala Asp Gly Asp Thr Leu Ser Cys Ile
 245 250 255
 Cys Gly Lys Thr Lys Leu Gly Glu Asp Met Leu Cys Leu Leu His Gly
 260 265 270
 Arg Asn Ser Met Ala Pro Pro Cys Gly Asp Met Glu Asn Leu Leu Cys
 275 280 285
 Ala Thr Asp Ser Leu Tyr Leu Asp Thr Met Gln Val Met Lys Trp Phe
 290 295 300
 Gln Thr Ala Leu Thr Arg Ala Trp Lys Gly Ile Ala His Lys Tyr Glu
 305 310 315 320
 Phe Asp Leu Ala Phe Gly Gln Leu Asp Ser Pro Gly Ser Leu Lys Ile
 325 330 335
 Lys Phe Arg Ser Gly Lys Phe Met Pro Phe Asn Leu Ile Pro Val Ile
 340 345 350
 Gln Cys Asp Asp Ser Asp Leu Tyr Phe Val Ser His Leu Pro Arg Glu
 355 360 365
 Pro Ser Glu Gly Thr Pro Ala Ser Ser Thr Asp Trp Leu Leu Ser Phe
 370 375 380
 Ala Val Tyr Glu Arg His Phe Leu Arg Thr Thr Leu Lys Ala Leu Pro
 385 390 395 400
 Glu Gly Ala Cys His Leu Ser Cys Leu Gln Ile Ala Ser Phe Leu Leu
 405 410 415
 Ser Lys Gln Ser Arg Leu Thr Gly Pro Ser Gly Leu Ser Ser Tyr His
 420 425 430

Leu Lys Thr Ala Leu Leu His Leu Leu Leu Leu Arg Gln Ala Ala Asp
 435 440 445
 Trp Lys Ala Gly Gln Leu Asp Ala Arg Leu His Glu Leu Leu Cys Phe
 450 455 460
 Leu Glu Lys Ser Leu Leu Gln Lys Lys Leu His His Phe Phe Ile Gly
 465 470 475 480
 Asn Arg Lys Val Pro Glu Ala Met Gly Leu Pro Glu Ala Val Leu Arg
 485 490 495
 Ala Glu Pro Leu Asn Leu Phe Arg Pro Phe Val Leu Gln Arg Ser Leu
 500 505 510
 Tyr Arg Lys Thr Leu Asp Ser Phe Tyr Glu Met Leu Lys Asn Ala Pro
 515 520 525
 Ala Leu Ile Ser Glu Tyr Ser Leu His Val Pro Ser Asp Gln Pro Thr
 530 535 540
 Pro Lys Ser
 545

<210> 1852
 <211> 213
 <212> PRT
 <213> Homo sapiens

<400> 1852
 Leu Leu Phe Leu Ser Leu Leu Gln Met Gln Glu Leu Leu Gly Arg Gly
 1 5 10 15
 Ala Trp Ala Pro Gly Cys Gly Arg Arg Pro Ser Gly Trp Gly Gln Leu
 20 25 30
 Ala Cys Pro Asp Pro Leu Leu Pro Pro His Asn Pro Lys Ser Pro Gln
 35 40 45
 Pro Gly Pro Ser Thr Ser Gly Val Trp Gly Glu Glu Gln Gly Leu Arg
 50 55 60
 Thr Leu Ser Ser Glu His Pro Trp Gln Gly Leu Gln Pro Leu Ile Ser
 65 70 75 80
 Ser Leu Lys Pro Cys Gly His Thr Ala Arg Arg Asp Leu Pro Leu Ala
 85 90 95
 Pro Ala Ser Phe Gln Pro Arg Val Leu Ile Gln Gly Pro Arg Thr Val
 100 105 110
 Pro Pro Val Leu Leu Cys Pro Gln His Lys Ala Arg Leu His Ser Gln
 115 120 125
 Lys Cys Ser Gln Ala Leu Glu Gly Asp Pro Ala Ser Ser Pro Thr Ala
 130 135 140

Pro His Pro Thr His Pro Ser Ala Ala Pro Leu Leu Phe Pro Arg Asp
 145 150 155 160

Leu Ser Tyr Thr Gly Gln Glu Ala Ala Glu Arg Val Ser Pro Pro Pro
 165 170 175

Ser Lys Arg Ser Cys Ser Leu Cys Gln Asn Arg Val Trp Ala Gly Gly
 180 185 190

Arg Ala Leu Gly Ala Arg Pro Leu Pro Leu Pro Ala Gly Phe Ser Trp
 195 200 205

Ser Leu Cys Trp Lys
 210

<210> 1853

<211> 179

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (91)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (140)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (169)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1853

Met Gly Met Gly Arg Gly Ala Gly Arg Ser Ala Leu Gly Phe Trp Pro
 1 5 10 15

Thr Leu Ala Phe Leu Leu Cys Ser Phe Pro Ala Ala Thr Ser Pro Cys
 20 25 30

Lys Ile Leu Lys Cys Asn Ser Glu Phe Trp Ser Ala Thr Ser Gly Ser
 35 40 45

His Ala Pro Ala Ser Asp Asp Thr Pro Glu Phe Cys Ala Ala Leu Arg
 50 55 60

Ser Tyr Ala Leu Cys Thr Arg Arg Thr Ala Arg Thr Cys Arg Gly Asp
 65 70 75 80

Leu Ala Tyr His Ser Ala Val His Gly Ile Xaa Asp Leu Met Ser Gln
 85 90 95

His Asn Cys Ser Lys Asp Gly Pro Thr Ser Gln Pro Arg Leu Arg Thr
 100 105 110

Leu Pro Pro Ala Glu Thr Ala Arg Ser Ala Arg Thr Ala Pro Arg Ser

115 120 125
 Ala Ile Thr Arg Arg Ala Phe Thr Ser Thr Arg Xaa Pro Pro Thr Thr
 130 135 140
 Arg Thr Val Ala Ser Ser Gly Thr His Thr Phe Arg Thr Phe Thr Asp
 145 150 155 160
 Arg Phe Gln Thr Cys Lys Val Gln Xaa Arg Leu Ala Ala His Arg Gln
 165 170 175
 Leu Ile Thr

<210> 1854
 <211> 357
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (140)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (325)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (329)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (335)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (338)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (339)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1854
 Met Gly Met Gly Arg Gly Ala Gly Arg Ser Ala Leu Gly Phe Trp Pro
 1 5 10 15
 Thr Leu Ala Phe Leu Leu Cys Ser Phe Pro Ala Ala Thr Ser Pro Cys
 20 25 30
 Lys Ile Leu Lys Cys Asn Ser Glu Phe Trp Ser Ala Thr Ser Gly Ser
 35 40 45

His Ala Pro Ala Ser Asp Asp Thr Pro Glu Phe Cys Ala Ala Leu Arg
 50 55 60
 Ser Tyr Ala Leu Cys Thr Arg Arg Thr Ala Arg Thr Cys Arg Gly Asp
 65 70 75 80
 Leu Ala Tyr His Ser Ala Val His Gly Ile Glu Asp Leu Met Ser Gln
 85 90 95
 His Asn Cys Ser Lys Asp Gly Pro Thr Ser Gln Pro Arg Leu Arg Thr
 100 105 110
 Leu Pro Pro Ala Gly Asp Ser Gln Glu Arg Ser Asp Ser Pro Glu Ile
 115 120 125
 Cys His Tyr Glu Lys Ser Phe His Lys His Ser Xaa Thr Pro Asn Tyr
 130 135 140
 Thr His Cys Gly Leu Phe Gly Asp Pro His Leu Arg Thr Phe Thr Asp
 145 150 155 160
 Arg Phe Gln Thr Cys Lys Val Gln Gly Ala Trp Pro Leu Ile Asp Asn
 165 170 175
 Asn Tyr Leu Asn Val Gln Val Thr Asn Thr Pro Val Leu Pro Gly Ser
 180 185 190
 Ala Ala Thr Ala Thr Ser Lys Leu Thr Ile Ile Phe Lys Asn Phe Gln
 195 200 205
 Glu Cys Val Asp Gln Lys Val Tyr Gln Ala Glu Met Asp Glu Leu Pro
 210 215 220
 Ala Ala Phe Val Asp Gly Ser Lys Asn Gly Gly Asp Lys His Gly Ala
 225 230 235 240
 Asn Ser Leu Lys Ile Thr Glu Lys Val Ser Gly Gln His Val Glu Ile
 245 250 255
 Gln Ala Lys Tyr Ile Gly Thr Thr Ile Val Val Arg Gln Val Gly Arg
 260 265 270
 Tyr Leu Thr Phe Ala Val Arg Met Pro Glu Glu Val Val Asn Ala Val
 275 280 285
 Glu Asp Trp Asp Ser Gln Gly Leu Tyr Leu Cys Leu Arg Gly Cys Pro
 290 295 300
 Leu Asn Gln Gln Ile Asp Phe Gln Ala Phe His Thr Asn Ala Glu Gly
 305 310 315 320
 Thr Gly Ala Arg Xaa Leu Ala Ala Xaa Ser Leu Asp Pro Gln Xaa Pro
 325 330 335
 Arg Xaa Xaa His Thr Arg Gln Ala Val Ala Lys Cys Lys Glu Lys Leu
 340 345 350
 Pro Val Glu Asp Leu
 355

<210> 1855

<211> 434

<212> PRT

<213> Homo sapiens

<400> 1855

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Met Gly Met Gly Arg Gly Ala Gly Arg Ser Ala Leu Gly Phe Trp Pro
 1           5           10           15

Thr Leu Ala Phe Leu Leu Cys Ser Phe Pro Ala Ala Thr Ser Pro Cys
      20           25           30

Lys Ile Leu Lys Cys Asn Ser Glu Phe Trp Ser Ala Thr Ser Gly Ser
      35           40           45

His Ala Pro Ala Ser Asp Asp Thr Pro Glu Phe Cys Ala Ala Leu Arg
      50           55           60

Ser Tyr Ala Leu Cys Thr Arg Arg Thr Ala Arg Thr Cys Arg Gly Asp
      65           70           75           80

Leu Ala Tyr His Ser Ala Val His Gly Ile Glu Asp Leu Met Ser Gln
      85           90           95

His Asn Cys Ser Lys Asp Gly Pro Thr Ser Gln Pro Arg Leu Arg Thr
      100          105          110

Leu Pro Pro Ala Gly Asp Ser Gln Glu Arg Ser Asp Ser Pro Glu Ile
      115          120          125

Cys His Tyr Glu Lys Ser Phe His Lys His Ser Ala Thr Pro Asn Tyr
      130          135          140

Thr His Cys Gly Leu Phe Gly Asp Pro His Leu Arg Thr Phe Thr Asp
      145          150          155          160

Arg Phe Gln Thr Cys Lys Val Gln Gly Ala Trp Pro Leu Ile Asp Asn
      165          170          175

Asn Tyr Leu Asn Val Gln Val Thr Asn Thr Pro Val Leu Pro Gly Ser
      180          185          190

Ala Ala Thr Ala Thr Ser Lys Leu Thr Ile Ile Phe Lys Asn Phe Gln
      195          200          205

Glu Cys Val Asp Gln Lys Val Tyr Gln Ala Glu Met Asp Glu Leu Pro
      210          215          220

Ala Ala Phe Val Asp Gly Ser Lys Asn Gly Gly Asp Lys His Gly Ala
      225          230          235          240

Asn Ser Leu Lys Ile Thr Glu Lys Val Ser Gly Gln His Val Glu Ile
      245          250          255

Gln Ala Lys Tyr Ile Gly Thr Thr Ile Val Val Arg Gln Val Gly Arg
      260          265          270

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Tyr Leu Thr Phe Ala Val Arg Met Pro Glu Glu Val Val Asn Ala Val
 275 280 285
 Glu Asp Trp Asp Ser Gln Gly Leu Tyr Leu Cys Leu Arg Gly Cys Pro
 290 295 300
 Leu Asn Gln Gln Ile Asp Phe Gln Ala Phe His Thr Asn Ala Glu Gly
 305 310 315 320
 Thr Gly Ala Arg Arg Leu Ala Ala Ala Ser Pro Ala Pro Thr Ala Pro
 325 330 335
 Glu Thr Phe Pro Tyr Glu Thr Ala Val Ala Lys Cys Lys Glu Lys Leu
 340 345 350
 Pro Val Glu Asp Leu Tyr Tyr Gln Ala Cys Val Phe Asp Leu Leu Thr
 355 360 365
 Thr Gly Asp Val Asn Phe Thr Leu Ala Ala Tyr Tyr Ala Leu Glu Asp
 370 375 380
 Val Lys Met Leu His Ser Asn Lys Asp Lys Leu His Leu Tyr Glu Arg
 385 390 395 400
 Thr Arg Asp Leu Pro Gly Arg Ala Ala Ala Gly Leu Pro Leu Ala Pro
 405 410 415
 Arg Pro Leu Leu Gly Ala Leu Val Pro Leu Leu Ala Leu Leu Pro Val
 420 425 430
 Phe Cys

<210> 1856

<211> 712

<212> PRT

<213> Homo sapiens

<400> 1856

Met Gly Gln Gly Leu Lys Ala Trp Pro Arg Tyr Arg Val Val Gly Ser
 1 5 10 15
 Ala Asp Ala Gly Gln Tyr Asn Leu Glu Ile Thr Asp Ala Glu Leu Ser
 20 25 30
 Asp Asp Ala Ser Tyr Glu Cys Gln Ala Thr Glu Ala Ala Leu Arg Ser
 35 40 45
 Arg Arg Ala Lys Leu Thr Val Leu Ile Pro Pro Glu Asp Thr Arg Ile
 50 55 60
 Asp Gly Gly Pro Val Ile Leu Leu Gln Ala Gly Thr Pro His Asn Leu
 65 70 75 80
 Thr Cys Arg Ala Phe Asn Ala Lys Pro Ala Ala Thr Ile Ile Trp Phe
 85 90 95
 Arg Asp Gly Thr Gln Gln Glu Gly Ala Val Ala Ser Thr Glu Leu Leu

100					105					110					
Lys	Asp	Gly	Lys	Arg	Glu	Thr	Thr	Val	Ser	Gln	Leu	Leu	Ile	Asn	Pro
		115					120					125			
Thr	Asp	Leu	Asp	Ile	Gly	Arg	Val	Phe	Thr	Cys	Arg	Ser	Met	Asn	Glu
	130					135					140				
Ala	Ile	Pro	Ser	Gly	Lys	Glu	Thr	Ser	Ile	Glu	Leu	Asp	Val	His	His
145					150					155					160
Pro	Pro	Thr	Val	Thr	Leu	Ser	Ile	Glu	Pro	Gln	Thr	Val	Gln	Glu	Gly
				165					170					175	
Glu	Arg	Val	Val	Phe	Thr	Cys	Gln	Ala	Thr	Ala	Asn	Pro	Glu	Ile	Leu
			180					185					190		
Gly	Tyr	Arg	Trp	Ala	Lys	Gly	Gly	Phe	Leu	Ile	Glu	Asp	Ala	His	Glu
	195						200					205			
Ser	Arg	Tyr	Glu	Thr	Asn	Val	Asp	Tyr	Ser	Phe	Phe	Thr	Glu	Pro	Val
	210					215					220				
Ser	Cys	Glu	Val	His	Asn	Lys	Val	Gly	Ser	Thr	Asn	Val	Ser	Thr	Leu
225					230					235					240
Val	Asn	Val	His	Phe	Ala	Pro	Arg	Ile	Val	Val	Asp	Pro	Lys	Pro	Thr
				245					250					255	
Thr	Thr	Asp	Ile	Gly	Ser	Asp	Val	Thr	Leu	Thr	Cys	Val	Trp	Val	Gly
			260					265					270		
Asn	Pro	Pro	Leu	Thr	Leu	Thr	Trp	Thr	Lys	Lys	Asp	Ser	Asn	Met	Gly
		275					280					285			
Pro	Arg	Pro	Pro	Gly	Ser	Pro	Pro	Glu	Ala	Ala	Leu	Ser	Ala	Gln	Val
	290					295					300				
Leu	Ser	Asn	Ser	Asn	Gln	Leu	Leu	Leu	Lys	Ser	Val	Thr	Gln	Ala	Asp
305					310					315					320
Ala	Gly	Thr	Tyr	Thr	Cys	Arg	Ala	Ile	Val	Pro	Arg	Ile	Gly	Val	Ala
				325					330					335	
Glu	Arg	Glu	Val	Pro	Leu	Tyr	Val	Asn	Gly	Pro	Pro	Ile	Ile	Ser	Ser
			340					345					350		
Glu	Ala	Val	Gln	Tyr	Ala	Val	Arg	Gly	Asp	Gly	Gly	Lys	Val	Glu	Cys
		355					360					365			
Phe	Ile	Gly	Ser	Thr	Pro	Pro	Pro	Asp	Arg	Ile	Ala	Trp	Ala	Trp	Lys
	370					375					380				
Glu	Asn	Phe	Leu	Glu	Val	Gly	Thr	Leu	Glu	Arg	Tyr	Thr	Val	Glu	Arg
385					390					395					400
Thr	Asn	Ser	Gly	Ser	Gly	Val	Leu	Ser	Thr	Leu	Thr	Ile	Asn	Asn	Val
				405					410					415	
Met	Glu	Ala	Asp	Phe	Gln	Thr	His	Tyr	Asn	Cys	Thr	Ala	Trp	Asn	Ser

420	425	430
Phe Gly Pro Gly Thr Ala Ile Ile Gln Leu Glu Glu Arg Glu Val Leu 435 440 445		
Pro Val Gly Ile Ile Ala Gly Ala Thr Ile Gly Ala Ser Ile Leu Leu 450 455 460		
Ile Phe Phe Phe Ile Ala Leu Val Phe Phe Leu Tyr Arg Arg Arg Lys 465 470 475 480		
Gly Ser Arg Lys Asp Val Thr Leu Arg Lys Leu Asp Ile Lys Val Glu 485 490 495		
Thr Val Asn Arg Glu Pro Leu Thr Met His Ser Asp Arg Glu Asp Asp 500 505 510		
Thr Ala Ser Val Ser Thr Ala Thr Arg Val Met Lys Ala Ile Tyr Ser 515 520 525		
Ser Phe Lys Asp Asp Val Asp Leu Lys Gln Asp Leu Arg Cys Asp Thr 530 535 540		
Ile Asp Thr Arg Glu Glu Tyr Glu Met Lys Asp Pro Thr Asn Gly Tyr 545 550 555 560		
Tyr Asn Val Arg Ala His Glu Asp Arg Pro Ser Ser Arg Ala Val Leu 565 570 575		
Tyr Ala Asp Tyr Arg Ala Pro Gly Pro Ala Arg Phe Asp Gly Arg Pro 580 585 590		
Ser Ser Arg Leu Ser His Ser Ser Gly Tyr Ala Gln Leu Asn Thr Tyr 595 600 605		
Ser Arg Gly Pro Ala Ser Asp Tyr Gly Pro Glu Pro Thr Pro Pro Gly 610 615 620		
Pro Ala Ala Pro Ala Gly Thr Asp Thr Thr Ser Gln Leu Ser Tyr Glu 625 630 635 640		
Asn Tyr Glu Lys Phe Asn Ser His Pro Phe Pro Gly Ala Ala Gly Tyr 645 650 655		
Pro Thr Tyr Arg Leu Gly Tyr Pro Gln Ala Pro Pro Ser Gly Leu Glu 660 665 670		
Arg Thr Pro Tyr Glu Ala Tyr Asp Pro Ile Gly Lys Tyr Ala Thr Ala 675 680 685		
Thr Arg Phe Ser Tyr Thr Ser Gln His Ser Asp Tyr Gly Gln Arg Phe 690 695 700		
Gln Gln Arg Met Gln Thr His Val 705 710		

<210> 1857

<211> 81

<212> PRT

<213> Homo sapiens

<400> 1857

Met Thr Ala Leu Met Ala Leu Val Met His Arg Leu Ala Leu Tyr Val
 1 5 10 15

Cys Val Leu Ser Thr Thr Ala Ala Leu Arg Gly Arg Asp Glu Ala Leu
 20 25 30

Gly Gly Glu Ala Ala Cys Leu Val Val Phe Trp Gly Pro His Ser His
 35 40 45

Asp Ile Glu Arg Gln Gly Gln Glu Gly Thr Gly Leu Asp Leu Arg Leu
 50 55 60

Ala Pro Gln Cys Ala Lys Asp Ser Val Thr Val Ser Arg Ser Cys Ser
 65 70 75 80

Val

<210> 1858

<211> 81

<212> PRT

<213> Homo sapiens

<400> 1858

Met Thr Ala Leu Met Ala Leu Val Met His Arg Leu Ala Leu Tyr Val
 1 5 10 15

Cys Val Leu Ser Thr Thr Ala Ala Leu Arg Gly Arg Asp Glu Ala Leu
 20 25 30

Gly Gly Glu Ala Ala Cys Leu Val Val Phe Trp Gly Pro His Ser His
 35 40 45

Asp Ile Glu Arg Gln Gly Gln Glu Gly Thr Gly Leu Asp Leu Arg Leu
 50 55 60

Ala Pro Gln Cys Ala Lys Asp Ser Val Thr Val Ser Arg Ser Cys Ser
 65 70 75 80

Val

<210> 1859

<211> 104

<212> PRT

<213> Homo sapiens

<400> 1859

Met Tyr Trp Gly Ile Phe Phe Ser Ile Leu Asn Phe Leu Ala Phe Phe
 1 5 10 15

Ser Leu Val Leu Ile Ser Val Leu Leu Trp Thr Gly Met Val Val Phe

1201

20 25 30
 Arg Ser Leu Asp Pro Gly Ala Glu Leu Val Gly Phe Glu Ser His Leu
 35 40 45
 Tyr His Cys Cys Val Thr Ser Gly Asn Leu Pro Asn Phe Pro Gly Pro
 50 55 60
 Gln Phe Ser Tyr Ile Glu Asn Gly Asn Asn Lys Ser Ile Cys Phe Ile
 65 70 75 80
 Gly Leu Leu Arg Glu Phe Ala Asn Ser Ile Tyr Ala Asn Leu Leu Asp
 85 90 95
 Gln Cys Leu Ala His Asn Ser Gln
 100

<210> 1860
 <211> 104
 <212> PRT
 <213> Homo sapiens

<400> 1860
 Met Tyr Trp Gly Ile Phe Phe Ser Ile Leu Asn Phe Leu Ala Phe Phe
 1 5 10 15
 Ser Leu Val Leu Ile Ser Val Leu Leu Trp Thr Gly Met Val Val Phe
 20 25 30
 Arg Ser Leu Asp Pro Gly Ala Glu Leu Val Gly Phe Glu Ser His Leu
 35 40 45
 Tyr His Cys Cys Val Thr Ser Gly Asn Leu Pro Asn Phe Pro Gly Pro
 50 55 60
 Gln Phe Ser Tyr Ile Glu Asn Gly Asn Asn Lys Ser Ile Cys Phe Ile
 65 70 75 80
 Gly Leu Leu Arg Glu Phe Ala Asn Ser Ile Tyr Ala Asn Leu Leu Asp
 85 90 95
 Gln Cys Leu Ala His Asn Ser Gln
 100

<210> 1861
 <211> 75
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (23)
 <223> Xaa equals any of the naturally occurring L-amino acids
 <220>
 <221> SITE

<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1861

Met	Ala	Ser	Tyr	Lys	Thr	Leu	Lys	Met	Leu	Phe	Ser	Cys	Leu	Leu	Thr
1				5					10					15	

Cys	Ser	Val	Ser	Asn	Glu	Xaa	Tyr	Ala	Val	Ile	Phe	Asn	Phe	Phe	Pro
			20					25					30		

Leu	Tyr	Ile	Xaa	Phe	Leu	Ser	Asp	Cys	Phe	Lys	Xaa	Phe	Ser	Leu	Ser
		35					40						45		

Leu	Val	Leu	Ser	Asn	Leu	Ile	Ile	Ile	Tyr	Leu	Gly	Val	Ile	Phe	Phe
	50					55					60				

Ile	Phe	Phe	Val	Leu	Asp	Ile	His	Arg	Ser	Ser
65					70				75	

<210> 1862

<211> 72

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (11)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1862

Xaa	Tyr	Thr	Phe	Val	Asn	Ser	Arg	Ser	Xaa	Xaa	Leu	Ile	Asp	Phe	Leu
1				5					10					15	

Cys	Val	Ile	Met	Gly	His	Leu	Phe	Leu	Val	His	Phe	Met	Pro	Asp	Ile
			20					25					30		

Leu	Lys	Phe	Lys	Thr	Lys	Tyr	Cys	Glu	Phe	Tyr	Leu	Val	Leu	Cys	Trp
		35					40					45			

Ile	Phe	Phe	Val	Phe	Leu	Ser	Thr	Ile	Met	Ser	Phe	Leu	Leu	Gly	Cys
	50					55					60				

Ser	Tyr	Ser	His	Trp	Lys	Gln	Phe
-----	-----	-----	-----	-----	-----	-----	-----

65

70

<210> 1863

<211> 75

<212> PRT

<213> Homo sapiens

<400> 1863

Met Ala Ser Tyr Lys Thr Leu Lys Met Leu Phe Ser Cys Leu Leu Thr
 1 5 10 15

Cys Ser Val Ser Asn Glu Gln Tyr Ala Val Ile Phe Asn Phe Phe Pro
 20 25 30

Leu Tyr Ile Cys Phe Leu Ser Asp Cys Phe Lys Cys Phe Ser Leu Ser
 35 40 45

Leu Val Leu Ser Asn Leu Ile Ile Ile Tyr Leu Gly Val Ile Phe Phe
 50 55 60

Ile Phe Phe Val Leu Asp Ile His Arg Ser Ser
 65 70 75

<210> 1864

<211> 63

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1864

Met Arg Leu Cys Gln Arg Pro Gly Leu Val Leu Ala Leu Pro Pro Gln
 1 5 10 15

Leu Ser Phe Ser Thr Ala Arg Gly Gly Asp Ser Arg Met Leu Gly Leu
 20 25 30

Pro Leu Gly Arg Xaa Thr Ser Gly Lys Val Gln Gly Asp Ser Thr Thr
 35 40 45

Val Lys Leu Arg Phe Gly Leu Gln Leu Gly Val Leu Gly Gln Arg
 50 55 60

<210> 1865

<211> 157

<212> PRT

<213> Homo sapiens

<400> 1865

Gly Gln Arg Gly Arg Pro Ala Ala Thr Ser His Arg Ile Leu Ser Ser
 1 5 10 15

His Ser Leu Ala Ser Gly Cys Pro Val Phe Arg Gly Gly Glu Gly Thr
 20 25 30
 Gly Ala Arg Ser Thr Pro Leu Ala Leu Leu Leu Asp Pro Lys Ala Arg
 35 40 45
 Pro Asp Pro Phe Ile Pro Trp Gly Ala Pro Ala Ser Ala Ile Gly Met
 50 55 60
 Arg Ser Leu Lys Ser Leu His Lys Gln Val Arg Asp Pro Pro Thr Cys
 65 70 75 80
 Arg Ser Trp Ala Thr Pro Arg Ala Ile Pro Arg Gly Cys Gly Arg Thr
 85 90 95
 Gln Pro Pro Thr Asp Arg Arg Pro Glu Ser Ser Glu Gly Ala Ile Pro
 100 105 110
 Ile Pro Thr Ser Gly Glu Ala Arg Thr Ala Ile Val Ala Ser Gly Lys
 115 120 125
 Thr Gln Leu Glu Pro Asn Gly Pro Cys Pro His Cys Asn Cys Ala Glu
 130 135 140
 Asn Val Ser Gln Met Thr Gln Ile Gly Ser Tyr Phe Phe
 145 150 155

<210> 1866
 <211> 47
 <212> PRT
 <213> Homo sapiens

<400> 1866
 Met Arg Leu Cys Gln Arg Pro Gly Leu Val Leu Ala Leu Pro Pro Gln
 1 5 10 15
 Leu Ser Phe Ser Thr Ala Arg Gly Gly Asp Ser Arg Met Leu Gly Leu
 20 25 30
 Pro Leu Gly Arg Gly Thr Leu Glu Gly Gln Gly Asp Pro Gln Leu
 35 40 45

<210> 1867
 <211> 89
 <212> PRT
 <213> Homo sapiens

<400> 1867
 Met Leu Ser Trp Leu Leu His Phe Tyr Phe Leu Thr Leu Ile Leu Met
 1 5 10 15
 Asn Lys Ala Ser Leu Met Asn Gln Leu Lys Ser Cys Lys Asn Val Phe
 20 25 30
 Lys Met Cys Ala Phe Tyr Tyr Leu Ser Val Tyr Val Leu Gly Glu Met

1205

35 40 45
 Gly Ser Asn Arg Ser Leu Cys Pro Asp Val Gln Asp Ala Cys Tyr His
 50 55 60
 Thr His Lys Cys Leu Ile Leu Val Phe Met Trp Pro Leu Ser Pro Val
 65 70 75 80
 Asp Phe Pro Leu Met Cys Phe Leu Leu
 85

<210> 1868
 <211> 89
 <212> PRT
 <213> Homo sapiens

<400> 1868
 Met Leu Ser Trp Leu Leu His Phe Tyr Phe Leu Thr Leu Ile Leu Met
 1 5 10 15
 Asn Lys Ala Ser Leu Met Asn Gln Leu Lys Ser Cys Lys Asn Val Phe
 20 25 30
 Lys Met Cys Ala Phe Tyr Tyr Leu Ser Val Tyr Val Leu Gly Glu Met
 35 40 45
 Gly Ser Asn Arg Ser Leu Cys Pro Asp Val Gln Asp Ala Cys Tyr His
 50 55 60
 Thr His Lys Cys Leu Ile Leu Val Phe Met Trp Pro Leu Ser Pro Val
 65 70 75 80
 Asp Phe Pro Leu Met Cys Phe Leu Leu
 85

<210> 1869
 <211> 93
 <212> PRT
 <213> Homo sapiens

<400> 1869
 Met Leu Ile Ser Lys Gly Val Gln Leu Leu Cys Lys Ala Val Tyr Pro
 1 5 10 15
 Ser His Leu Trp Ser Phe Leu Val Leu Leu Phe Thr Val Met Lys Thr
 20 25 30
 Glu Pro Val Ser Ala Leu Gly Cys Gly Asp Gln Cys His Gln Ser Leu
 35 40 45
 Leu Leu Arg Asp Tyr Pro Leu Ala Asn Ile Pro Ile Cys Gly Trp Ala
 50 55 60
 Trp Arg Val Tyr Leu Phe Leu Gly Cys Val Cys Ile Cys Val Cys Val
 65 70 75 80

Cys Val Cys Val Phe Asn Ser Ser Val Cys Lys Leu Phe
 85 90

<210> 1870

<211> 304

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (98)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (166)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (231)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1870

Met Ser Ser Ser Glu Met Trp Thr Val Leu Trp His Arg Phe Ser Met
 1 5 10 15

Val Leu Arg Leu Pro Glu Glu Ala Ser Ala Gln Glu Gly Glu Leu Ser
 20 25 30

Leu Ser Ser Pro Pro Ser Pro Glu Pro Asp Trp Thr Leu Ile Ser Pro
 35 40 45

Gln Gly Ile Phe Leu Ser His Gly Ser Ile Leu Met Ser Ile Leu Lys
 50 55 60

His Leu Leu Cys Pro Ser Phe Leu Asn Gln Leu Arg Gln Ala Pro His
 65 70 75 80

Gly Ser Glu Phe Leu Pro Val Val Val Leu Ser Val Cys Gln Leu Leu
 85 90 95

Cys Xaa Pro Phe Ala Leu Asp Met Asp Ala Asp Leu Leu Ile Asp Val
 100 105 110

Leu Ala Asp Leu Arg Asp Ser Glu Val Ala Ala His Leu Leu Gln Val
 115 120 125

Cys Cys Tyr His Leu Pro Leu Met Gln Val Glu Leu Pro Ile Ser Leu
 130 135 140

Leu Thr Arg Leu Ala Leu Met Asp Pro Thr Ser Leu Asn Gln Phe Val
 145 150 155 160

Asn Thr Val Ser Ala Xaa Pro Arg Thr Ile Val Ser Phe Leu Ser Val
 165 170 175

Ala Leu Leu Ser Asp Gln Pro Leu Leu Thr Ser Asp Leu Leu Ser Leu

180								185				190				
Leu	Ala	His	Thr	Ala	Arg	Val	Leu	Ser	Pro	Ser	His	Leu	Ser	Phe	Ile	
195							200				205					
Gln	Glu	Leu	Leu	Ala	Gly	Ser	Asp	Glu	Ser	Tyr	Arg	Pro	Leu	Arg	Ser	
210						215		220								
Ser	Trp	Ala	Thr	Gln	Arg	Xaa	Leu	Cys	Gly	His	Thr	Leu	Ile	Gly	Ser	
225					230		235						240			
Trp	Asp	Thr	Cys	Ser	Asn	Thr	Ala	Trp	Pro	Cys	Val	Gly	His	Cys	Arg	
245					250						255					
Ala	Ser	Leu	Asp	Cys	Ser	Ala	Phe	Cys	Cys	Leu	Gly	Leu	Glu	Thr	Arg	
260					265						270					
Ile	Leu	Leu	Cys	Gly	Ala	Val	Pro	Ala	Leu	Leu	Trp	Ala	Met	Gln	Pro	
275					280						285					
Thr	Arg	Leu	Val	Leu	Trp	Asp	Leu	Pro	Trp	Gln	Leu	Gln	Cys	Pro	Val	
290						295		300								

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<210> 1871
<211> 91
<212> PRT
<213> Homo sapiens
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<220>
<221> SITE
<222> (54)
<223> Xaa equals any of the naturally occurring L-amino acids
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<220>
<221> SITE
<222> (71)
<223> Xaa equals any of the naturally occurring L-amino acids
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<220> ''
<221> SITE
<222> (89)
<223> Xaa equals any of the naturally occurring L-amino acids
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<400> 1871
Met Ala Val Met Cys Val Ala Gly Leu Phe Phe Ile Pro Val Ala Gly
1 5 10 15

Leu Thr Gly Phe His Val Val Leu Val Ala Arg Gly Arg Thr Thr Asn
20 25 30

Glu Gln Val Thr Gly Lys Phe Arg Gly Gly Val Asn Pro Phe Thr Asn
35 40 45

Gly Cys Cys Asn Asn Xaa Ser Arg Val Leu Cys Ser Ser Pro Ala Pro
50 55 60

Arg Tyr Leu Gly Arg Pro Xaa Lys Glu Lys Thr Ile Val Ile Arg Pro
 65 70 75 80

Pro Phe Leu Arg Pro Arg Ser Phe Xaa Trp Ala
 85 90

<210> 1872

<211> 210

<212> PRT

<213> Homo sapiens

<400> 1872

Met Ala Val Met Cys Val Ala Gly Leu Phe Phe Ile Pro Val Ala Gly
 1 5 10 15

Leu Thr Gly Phe His Val Val Leu Val Ala Arg Gly Arg Thr Thr Asn
 20 25 30

Glu Gln Val Thr Gly Lys Phe Arg Gly Gly Val Asn Pro Phe Thr Asn
 35 40 45

Gly Cys Cys Asn Asn Val Ser Arg Val Leu Cys Ser Ser Pro Ala Pro
 50 55 60

Arg Tyr Leu Gly Arg Pro Lys Lys Glu Lys Thr Ile Val Ile Arg Pro
 65 70 75 80

Pro Phe Leu Arg Pro Glu Val Ser Asp Gly Gln Ile Thr Val Lys Ile
 85 90 95

Met Asp Asn Gly Ile Gln Gly Glu Leu Arg Arg Thr Lys Ser Lys Gly
 100 105 110

Ser Leu Glu Ile Thr Glu Ser Gln Ser Ala Asp Ala Glu Pro Pro Pro
 115 120 125

Pro Pro Lys Pro Asp Leu Ser Arg Tyr Thr Gly Leu Arg Thr His Leu
 130 135 140

Gly Leu Ala Thr Asn Glu Asp Ser Ser Leu Leu Ala Lys Asp Ser Pro
 145 150 155 160

Pro Thr Pro Thr Met Tyr Lys Tyr Arg Pro Gly Tyr Ser Ser Ser Ser
 165 170 175

Thr Ser Ala Ala Met Pro His Ser Ser Ser Ala Lys Val Leu Ser Thr
 180 185 190

Leu Arg Gly Gly Val Ile Thr Cys Gln Leu Ala Arg His Ser Gly Ser
 195 200 205

Phe Leu
 210

<210> 1873

<211> 193

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (53)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1873

Met	Gly	Pro	Leu	Ser	Pro	Ala	Arg	Thr	Leu	Arg	Leu	Trp	Gly	Pro	Arg
1				5					10					15	

Ser	Leu	Gly	Val	Ala	Leu	Gly	Val	Phe	Met	Thr	Ile	Gly	Phe	Ala	Leu
		20						25					30		

Gln	Leu	Leu	Gly	Gly	Pro	Phe	Gln	Arg	Arg	Leu	Pro	Gly	Leu	Gln	Leu
		35					40					45			

Arg	Gln	Pro	Ser	Xaa	Pro	Ser	Leu	Arg	Pro	Ala	Leu	Pro	Ser	Cys	Pro
	50					55					60				

Pro	Arg	Gln	Arg	Leu	Val	Phe	Leu	Lys	Thr	His	Lys	Ser	Gly	Ser	Ser
65				70						75				80	

Ser	Val	Leu	Ser	Leu	Leu	His	Arg	Tyr	Gly	Asp	Gln	His	Gly	Leu	Arg
				85					90					95	

Phe	Ala	Leu	Pro	Ala	Arg	Tyr	Gln	Phe	Gly	Tyr	Pro	Lys	Leu	Phe	Gln
		100					105						110		

Ala	Ser	Arg	Val	Lys	Gly	Tyr	Arg	Pro	Gln	Gly	Gly	Gly	Thr	Gln	Leu
		115					120					125			

Pro	Phe	His	Ile	Leu	Cys	His	His	Met	Arg	Phe	Asn	Leu	Lys	Glu	Val
	130					135					140				

Leu	Gln	Val	Met	Pro	Ser	Asp	Ser	Phe	Phe	Phe	Ser	Ile	Val	Arg	Asp
145					150					155				160	

Pro	Ala	Ala	Leu	Ala	Arg	Ser	Ala	Phe	Ser	Tyr	Tyr	Lys	Ser	Thr	Ser
			165					170						175	

Ser	Ala	Phe	Arg	Lys	Ser	Pro	Ser	Leu	Ala	Ala	Phe	Leu	Ala	Asn	Pro
			180					185					190		

Arg

<210> 1874

<211> 461

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (28)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (168)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (169)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (171)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (178)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (442)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1874

Met	Thr	Ile	Gly	Phe	Ala	Leu	Gln	Leu	Leu	Gly	Gly	Pro	Phe	Gln	Arg
1				5					10					15	

Arg	Leu	Pro	Gly	Leu	Gln	Leu	Arg	Gln	Pro	Ser	Xaa	Pro	Ser	Leu	Arg
			20					25						30	

Pro	Ala	Leu	Pro	Ser	Cys	Pro	Pro	Arg	Gln	Arg	Leu	Val	Phe	Leu	Lys
	35						40					45			

Thr	His	Lys	Ser	Gly	Ser	Ser	Ser	Val	Leu	Ser	Leu	Leu	His	Arg	Tyr
	50					55					60				

Gly	Asp	Gln	His	Gly	Leu	Arg	Phe	Ala	Leu	Pro	Ala	Arg	Tyr	Gln	Phe
65					70					75				80	

Gly	Tyr	Pro	Lys	Leu	Phe	Gln	Ala	Ser	Arg	Val	Lys	Gly	Tyr	Arg	Pro
			85						90					95	

Gln	Gly	Gly	Gly	Thr	Gln	Leu	Pro	Phe	His	Ile	Leu	Cys	His	His	Met
			100					105					110		

Arg	Phe	Asn	Leu	Lys	Glu	Val	Leu	Gln	Val	Met	Pro	Ser	Asp	Ser	Phe
		115					120					125			

Phe	Phe	Ser	Ile	Val	Arg	Asp	Pro	Ala	Ala	Leu	Ala	Arg	Ser	Ala	Phe
	130					135					140				

Ser	Tyr	Tyr	Lys	Ser	Thr	Ser	Ser	Ala	Phe	Arg	Lys	Ser	Pro	Ser	Leu
145					150					155					160

Ala	Ala	Phe	Leu	Ala	Asn	Pro	Xaa	Xaa	Phe	Xaa	Arg	Pro	Gly	Ala	Arg
			165						170					175	

Gly Xaa His Tyr Ala Arg Asn Leu Leu Trp Phe Asp Phe Gly Leu Pro
 180 185 190
 Phe Pro Pro Glu Lys Arg Ala Lys Arg Gly Asn Ile His Pro Pro Arg
 195 200 205
 Asp Pro Asn Pro Pro Gln Leu Gln Val Leu Pro Ser Gly Ala Gly Pro
 210 215 220
 Arg Ala Gln Thr Leu Asn Pro Asn Ala Leu Ile His Pro Val Ser Thr
 225 230 235 240
 Val Thr Asp His Arg Ser Gln Ile Ser Ser Pro Ala Ser Phe Asp Leu
 245 250 255
 Gly Ser Ser Ser Phe Ile Gln Trp Gly Leu Ala Trp Leu Asp Ser Val
 260 265 270
 Phe Asp Leu Val Met Val Ala Glu Tyr Phe Asp Glu Ser Leu Val Leu
 275 280 285
 Leu Ala Asp Ala Leu Cys Trp Gly Leu Asp Asp Val Val Gly Phe Met
 290 295 300
 His Asn Ala Gln Ala Gly His Lys Gln Gly Leu Ser Thr Val Ser Asn
 305 310 315 320
 Ser Gly Leu Thr Ala Glu Asp Arg Gln Leu Thr Ala Arg Ala Arg Ala
 325 330 335
 Trp Asn Asn Leu Asp Trp Ala Leu Tyr Val His Phe Asn Arg Ser Leu
 340 345 350
 Trp Ala Arg Ile Glu Lys Tyr Gly Gln Gly Arg Leu Gln Thr Ala Val
 355 360 365
 Ala Glu Leu Arg Ala Arg Arg Glu Ala Leu Ala Lys His Cys Leu Val
 370 375 380
 Gly Gly Glu Ala Ser Asp Pro Lys Tyr Ile Thr Asp Arg Arg Phe Arg
 385 390 395 400
 Pro Phe Gln Phe Gly Ser Ala Lys Val Leu Gly Tyr Ile Leu Arg Ser
 405 410 415
 Gly Leu Ser Pro Gln Asp Gln Glu Glu Cys Glu Arg Leu Ala Thr Pro
 420 425 430
 Glu Leu Gln Tyr Lys Asp Lys Leu Asp Xaa Lys Gln Phe Pro Pro Thr
 435 440 445
 Val Ser Leu Pro Leu Lys Thr Ser Arg Pro Leu Ser Pro
 450 455 460

<210> 1875

<211> 191

<212> PRT

<213> Homo sapiens

<400> 1875

Met Gly Pro Leu Ser Pro Ala Arg Thr Leu Arg Leu Trp Gly Pro Arg
 1 5 10 15

Ser Leu Gly Val Ala Leu Gly Val Phe Met Thr Ile Gly Phe Ala Leu
 20 25 30

Gln Leu Leu Gly Gly Pro Phe Gln Arg Arg Leu Pro Gly Leu Gln Leu
 35 40 45

Arg Gln Pro Ser Ala Pro Ser Leu Arg Pro Ala Leu Pro Ser Cys Pro
 50 55 60

Pro Arg Gln Arg Leu Val Phe Leu Lys Thr His Lys Ser Gly Ser Ser
 65 70 75 80

Ser Val Leu Ser Leu Leu His Arg Tyr Gly Asp Gln His Gly Leu Arg
 85 90 95

Phe Ala Leu Pro Ala Arg Tyr Gln Phe Gly Tyr Pro Lys Leu Phe Gln
 100 105 110

Ala Ser Arg Val Lys Gly Tyr Arg Pro Gln Gly Gly Gly Thr Gln Leu
 115 120 125

Pro Phe His Ile Leu Cys His His Met Arg Phe Asn Leu Lys Glu Val
 130 135 140

Leu Gln Val Met Pro Ser Asp Ser Phe Phe Phe Ser Ile Val Arg Asp
 145 150 155 160

Pro Ala Gly Leu Ala Arg Ser Ala Phe Ser Tyr Tyr Lys Ser Thr Ser
 165 170 175

Ser Thr Phe Arg Lys Ser Pro Ser Leu Ala Ala Phe Leu Ala Asn
 180 185 190

<210> 1876

<211> 83

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (65)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1876

Met Ala Pro Ala Ile Val Thr Leu Gly Leu Leu Leu Pro Leu Ala Pro
 1 5 10 15

Ala Asp Leu Cys Leu Pro Ala Leu Gly Ser Ser Arg Leu Pro Arg Gly
 20 25 30

Pro Pro Gln Leu Pro Ser Ile Pro Val Ser Gln Pro Leu Pro Arg Gly
 35 40 45

Phe Leu Arg Glu His Pro Gln Pro His Lys Leu Gln Pro Ile Pro Pro
 50 55 60

Xaa Ser Gln Lys Ala Leu Phe Leu Glu Pro Arg Arg Arg Leu Trp Pro
 65 70 75 80

Pro Ser Pro

<210> 1877

<211> 96

<212> PRT

<213> Homo sapiens

<400> 1877

Met Ser Ile Pro Met Val Ser Val Leu Leu Cys Gln Ala Pro Leu Leu
 1 5 10 15

Ile Gln Val Ala Leu Pro Arg Thr Val Ala Ile Arg Lys Lys Arg Leu
 20 25 30

Cys Leu Val Asp Ser Ile Leu Gln Thr Trp His Leu Phe Asn Phe Phe
 35 40 45

Leu Val Gly Phe Ile Phe Gln Ser Ile Phe Arg Phe Thr Ala Lys Leu
 50 55 60

Ser Glu Ser Thr Glu Ile Ser His Leu Phe Phe Ala Pro Thr Gln Ala
 65 70 75 80

Lys Pro His Leu Leu Pro Ile Ser Pro Thr Arg Glu Val His Leu Leu
 85 90 95

<210> 1878

<211> 86

<212> PRT

<213> Homo sapiens

<400> 1878

Met Ser Phe Arg Ser Glu Leu Ala Met Trp Phe Gln Ala Ala Leu Val
 1 5 10 15

Ser Ser Leu Val Leu Pro Thr Pro Pro Gly Ser Gly Gly Thr Ser Arg
 20 25 30

Arg Lys Lys Trp Ile Lys Ser Trp Arg Asp Phe Lys Gln Tyr Leu Thr
 35 40 45

His Ser Ser Arg His Asp Ser His Gln Leu Arg Ser Ser Asn Ala Phe
 50 55 60

Leu Phe Asp Ala Gln Glu Gly Pro Ser Ala Val Asp Ile Ala Lys Asp
 65 70 75 80

Glu Ile Gln Arg Gln Arg
85

<210> 1879

<211> 130

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (67)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1879

Met	Leu	Gln	Thr	Thr	Leu	Pro	Ser	Ser	Gln	Thr	Val	Ser	Leu	Cys	Leu	
1					5				10					15		
Trp	Val	Gly	Ala	Ser	Gln	Pro	Pro	Pro	Ser	Phe	Leu	Cys	Cys	Gln	Leu	
			20					25					30			
Gln	Val	Phe	Leu	Cys	Leu	Leu	His	Thr	Thr	Arg	Arg	Cys	Pro	Ser	Ala	
		35					40					45				
Leu	Pro	Ala	Leu	Val	Arg	Val	Val	Pro	Val	Ser	His	Cys	Gln	Thr	Ser	
	50					55					60					
Trp	Leu	Xaa	Cys	Gly	Asp	Leu	Phe	Leu	Cys	Leu	Arg	Ser	Phe	Leu	Arg	
	65				70					75					80	
Ser	Val	His	Ser	Ser	Gly	Val	Ser	Pro	Cys	Leu	Glu	Gln	Ile	Ala	Ser	
				85					90					95		
Pro	Phe	Ser	Thr	Cys	Leu	Leu	Lys	Leu	Trp	Ser	Thr	Cys	Asp	Cys	Lys	
			100					105					110			
Phe	Ser	Ala	Ala	Thr	Pro	Glu	Pro	Ser	Ser	Ser	His	Ser	Phe	Thr	Phe	
		115					120					125				
Met	Asp															
	130															

<210> 1880

<211> 96

<212> PRT

<213> Homo sapiens

<400> 1880

Met	Leu	Met	Val	Arg	Leu	Phe	Asn	Ser	Phe	Pro	His	Ala	Leu	Leu	Ile	
1					5				10					15		
Leu	Phe	Leu	Trp	Gly	Glu	Gln	Ser	Pro	Leu	Thr	Lys	Pro	Cys	Pro	Thr	
			20					25					30			
His	Trp	Ala	Pro	Val	Trp	Met	Val	Pro	Gly	Pro	Gln	Val	Leu	Trp	Gly	
		35				40						45				

Thr His Trp Gly Leu Pro Gly Asn His Phe Cys Arg Ile Arg Ser His
 50 55 60

Thr Arg Arg Ala Gln Cys Pro Arg Glu Gly Pro Phe Pro Thr Thr Leu
 65 70 75 80

Pro His Trp Gly Trp Val Thr Gly Thr Tyr Arg Gly Trp Cys Cys Leu
 85 90 95

<210> 1881

<211> 122

<212> PRT

<213> Homo sapiens

<400> 1881

Met Leu Met Val Arg Leu Phe Asn Ser Phe Pro His Ala Leu Leu Ile
 1 5 10 15

Leu Phe Leu Trp Gly Glu Gln Ser Pro Leu Thr Lys Pro Cys Pro Thr
 20 25 30

His Trp Ala Pro Val Trp Met Val Pro Gly Pro Gln Val Leu Trp Gly
 35 40 45

Thr His Trp Gly Leu Pro Gly Asn His Phe Cys Arg Ile Arg Ser His
 50 55 60

Thr Arg Arg Ala Gln Cys Pro Arg Glu Gly Pro Phe Pro Thr Thr Leu
 65 70 75 80

Pro His Trp Gly Trp Val Thr Gly Thr Tyr Arg Gly Trp Cys Cys Leu
 85 90 95

Ala Ser Pro Ala Cys Gly Gly Ser Trp Val Leu Leu Pro Phe Gly Phe
 100 105 110

Val Phe Tyr Leu Ser Gly Trp Ala Ser Phe
 115 120

<210> 1882

<211> 122

<212> PRT

<213> Homo sapiens

<400> 1882

Met Leu Met Val Arg Leu Phe Asn Ser Phe Pro His Ala Leu Leu Ile
 1 5 10 15

Leu Phe Leu Trp Gly Glu Gln Ser Pro Leu Thr Lys Pro Cys Pro Thr
 20 25 30

His Trp Ala Pro Val Trp Met Val Pro Gly Pro Gln Val Leu Trp Gly

1216

35 40 45
 Thr His Trp Gly Leu Pro Gly Asn His Phe Cys Arg Ile Arg Ser His
 50 55 60
 Thr Arg Arg Ala Gln Cys Pro Arg Glu Gly Pro Phe Pro Thr Thr Leu
 65 70 75 80
 Pro His Trp Gly Trp Val Thr Gly Thr Tyr Arg Gly Trp Cys Cys Leu
 85 90 95
 Ala Ser Pro Ala Cys Gly Gly Ser Trp Val Leu Leu Pro Phe Gly Phe
 100 105 110
 Val Phe Tyr Leu Ser Gly Trp Ala Ser Phe
 115 120

<210> 1883
 <211> 65
 <212> PRT
 <213> Homo sapiens

<400> 1883
 Met Pro Arg Ser Ser Trp Arg Pro Ala Pro Ser Arg Pro Trp Met Pro
 1 5 10 15
 Trp Ser Cys Ala Ser Ser Trp Ser Thr Ser Gly Leu Trp Thr Leu Leu
 20 25 30
 Cys Thr Arg Ala Ala Cys Thr Ser Ser Gln Arg Pro Thr Thr Thr Cys
 35 40 45
 Trp Asp Gln Pro Arg Arg Leu Thr Leu Leu Cys Ser Gly Ala Cys Ser
 50 55 60
 Arg
 65

<210> 1884
 <211> 66
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (14)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (28)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1884
 Ser Gln Leu Leu Gly Arg Leu Arg Gln Glu Asn Arg Leu Xaa Pro Gly
 1 5 10 15

Gly Gly Gly Trp Ser Glu Arg Arg Ser Cys His Xaa Thr Pro Ala Trp
20 25 30
Val Thr Glu Arg Gln Thr Val Ser Lys Lys Lys Lys Lys Lys Lys Asn
35 40 45
Val Arg Lys Glu Val Glu Ser Tyr Phe His Leu Tyr Phe Ser His Cys
50 55 60
Leu Ala
65

<210> 1885

<211> 242

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (172)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (197)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (198)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (205)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (214)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (228)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (233)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (236)

<223> Xaa equals any of the naturally occurring L-amino acids.

<400> 1885

Met His Arg Leu Ala Pro His Cys Ser Phe Ala Arg Trp Leu Leu Cys
 1 5 10 15

Asn Gly Ser Leu Phe Arg Tyr Lys His Pro Ser Glu Glu Glu Leu Arg
 20 25 30

Ala Leu Ala Gly Lys Pro Arg Pro Arg Gly Arg Lys Glu Arg Trp Ala
 35 40 45

Asn Gly Leu Ser Glu Glu Lys Pro Leu Ser Val Pro Arg Asp Ala Pro
 50 55 60

Phe Gln Leu Glu Thr Cys Pro Leu Thr Thr Val Asp Ala Leu Val Leu
 65 70 75 80

Arg Phe Phe Leu Glu Tyr Gln Trp Phe Val Asp Phe Ala Val Tyr Ser
 85 90 95

Gly Gly Val Tyr Leu Phe Thr Glu Ala Tyr Tyr Tyr Met Leu Gly Pro
 100 105 110

Ala Lys Glu Thr Asn Ile Ala Val Phe Trp Cys Leu Leu Thr Val Thr
 115 120 125

Phe Ser Ile Lys Met Phe Leu Thr Val Thr Arg Leu Tyr Phe Ser Ala
 130 135 140

Glu Glu Gly Gly Glu Arg Ser Val Cys Leu Thr Phe Ala Phe Leu Phe
 145 150 155 160

Leu Leu Leu Ala Met Leu Val Gln Val Val Arg Xaa Glu Thr Leu Glu
 165 170 175

Leu Gly Leu Asp Leu Ala Gly Ser Met Thr Gln Asn Leu Glu Pro Leu
 180 185 190

Leu Lys Lys Gln Xaa Xaa Asp Trp Ala Leu Pro Val Xaa Lys Leu Leu
 195 200 205

Ser Arg Asp Cys Met Xaa Leu Gly Trp Cys Phe Tyr Phe Ser Trp Val
 210 215 220

Ala Thr Arg Xaa Cys Ile Glu Lys Xaa Tyr Leu Xaa Lys Ser Val Cys
 225 230 235 240

Thr Gly

<210> 1886

<211> 479

<212> PRT

<213> Homo sapiens

<400> 1886

Met Ala Val Leu Gly Val Gln Leu Val Val Thr Leu Leu Thr Ala Thr
 1 5 10 15

Leu Met His Arg Leu Ala Pro His Cys Ser Phe Ala Arg Trp Leu Leu
 20 25 30
 Cys Asn Gly Ser Leu Phe Arg Tyr Lys His Pro Ser Glu Glu Glu Leu
 35 40 45
 Arg Ala Leu Ala Gly Lys Pro Arg Pro Arg Gly Arg Lys Glu Arg Trp
 50 55 60
 Ala Asn Gly Leu Ser Glu Glu Lys Pro Leu Ser Val Pro Arg Asp Ala
 65 70 75 80
 Pro Phe Gln Leu Glu Thr Cys Pro Leu Thr Thr Val Asp Ala Leu Val
 85 90 95
 Leu Arg Phe Phe Leu Glu Tyr Gln Trp Phe Val Asp Phe Ala Val Tyr
 100 105 110
 Ser Gly Gly Val Tyr Leu Phe Thr Glu Ala Tyr Tyr Tyr Met Leu Gly
 115 120 125
 Pro Ala Lys Glu Thr Asn Ile Ala Val Phe Trp Cys Leu Leu Thr Val
 130 135 140
 Thr Phe Ser Ile Lys Met Phe Leu Thr Val Thr Arg Leu Tyr Phe Ser
 145 150 155 160
 Ala Glu Glu Gly Gly Glu Arg Ser Val Cys Leu Thr Phe Ala Phe Leu
 165 170 175
 Phe Leu Leu Leu Ala Met Leu Val Gln Val Val Arg Glu Glu Thr Leu
 180 185 190
 Glu Leu Gly Leu Glu Pro Gly Leu Ala Ser Met Thr Gln Asn Leu Glu
 195 200 205
 Pro Leu Leu Lys Lys Gln Gly Trp Asp Trp Ala Leu Pro Val Ala Lys
 210 215 220
 Leu Ala Ile Arg Val Gly Leu Ala Val Val Gly Ser Val Leu Gly Ala
 225 230 235 240
 Phe Leu Thr Phe Pro Gly Leu Arg Leu Ala Gln Thr His Arg Asp Ala
 245 250 255
 Leu Thr Met Ser Glu Asp Arg Pro Met Leu Gln Phe Leu Leu His Thr
 260 265 270
 Ser Phe Leu Ser Pro Leu Phe Ile Leu Trp Leu Trp Thr Lys Pro Ile
 275 280 285
 Ala Arg Asp Phe Leu His Gln Pro Pro Phe Gly Glu Thr Arg Phe Ser
 290 295 300
 Leu Leu Ser Asp Ser Ala Phe Asp Ser Gly Arg Leu Trp Leu Leu Val
 305 310 315 320
 Val Leu Cys Leu Leu Arg Leu Ala Val Thr Arg Pro His Leu Gln Ala
 325 330 335

Tyr Leu Cys Leu Ala Lys Ala Arg Val Glu Gln Leu Arg Arg Glu Ala
 340 345 350
 Gly Arg Ile Glu Ala Arg Glu Ile Gln Gln Arg Val Val Arg Val Tyr
 355 360 365
 Cys Tyr Val Thr Val Val Ser Leu Gln Tyr Leu Thr Pro Leu Ile Leu
 370 375 380
 Thr Leu Asn Cys Thr Leu Leu Leu Lys Thr Leu Gly Gly Tyr Ser Trp
 385 390 395 400
 Gly Leu Gly Pro Ala Pro Leu Leu Ser Pro Asp Pro Ser Ser Ala Ser
 405 410 415
 Ala Ala Pro Ile Gly Ser Gly Glu Asp Glu Val Gln Gln Thr Ala Ala
 420 425 430
 Arg Ile Ala Gly Ala Leu Gly Gly Leu Leu Thr Pro Leu Phe Leu Arg
 435 440 445
 Gly Val Leu Ala Tyr Leu Ile Trp Trp Thr Ala Ala Cys Gln Leu Leu
 450 455 460
 Ala Ser Leu Phe Gly Leu Tyr Phe His Gln His Leu Ala Gly Ser
 465 470 475

<210> 1887

<211> 122

<212> PRT

<213> Homo sapiens

<400> 1887

Met Arg His His Thr Trp Leu Ile Phe Leu Ile Leu Ile Phe Val Glu
 1 5 10 15
 Met Gly Gly Gln Val Ser Leu Cys Cys Pro Gly Cys Ser Arg Thr Pro
 20 25 30
 Gly His Lys Pro Ser Ser His Leu Ser Leu Pro Met Arg Arg Asn Tyr
 35 40 45
 Arg Trp Leu Arg Cys Glu Pro Pro Cys Leu Ala Phe Leu His Tyr Leu
 50 55 60
 Glu Ile Arg Trp Glu Glu Ala Phe Phe Trp Val Gly Leu Arg Arg His
 65 70 75 80
 Thr Glu Val Pro Gln Val Ile Gly Ala Gly Pro Leu Pro Phe Ser Pro
 85 90 95
 Pro Trp Val Val Val Asp Arg Ser Leu Gly Trp Asp Gly Glu Glu Arg
 100 105 110
 Ser Cys Cys Val Ser Cys Leu Leu Phe Lys
 115 120

<210> 1888

<211> 122

<212> PRT

<213> Homo sapiens

<400> 1888

Met Arg His His Thr Trp Leu Ile Phe Leu Ile Leu Ile Phe Val Glu
 1 5 10 15

Met Gly Gly Gln Val Ser Leu Cys Cys Pro Gly Cys Ser Arg Thr Pro
 20 25 30

Gly His Lys Pro Ser Ser His Leu Ser Leu Pro Met Arg Arg Asn Tyr
 35 40 45

Arg Trp Leu Arg Cys Glu Pro Pro Cys Leu Ala Phe Leu His Tyr Leu
 50 55 60

Glu Ile Arg Trp Glu Glu Ala Phe Phe Trp Val Gly Leu Arg Arg His
 65 70 75 80

Thr Glu Val Pro Gln Val Ile Gly Ala Gly Pro Leu Pro Phe Ser Pro
 85 90 95

Pro Trp Val Val Val Asp Arg Ser Leu Gly Trp Asp Gly Glu Glu Arg
 100 105 110

Ser Cys Cys Val Ser Cys Leu Leu Phe Lys
 115 120

<210> 1889

<211> 92

<212> PRT

<213> Homo sapiens

<400> 1889

Met Glu Leu Val Phe Leu Ile Ile Ser Leu Val Cys Gln His Cys Ser
 1 5 10 15

Pro Asp Ser Ala Gly Asp Leu Cys Val Gln Thr Pro Ser Val Trp Pro
 20 25 30

Arg Thr Leu Met Glu Ile Met Leu Ser Ser Leu Gly Glu Phe Ala Leu
 35 40 45

Ser Asn Asn Gln Arg Phe Val Cys Phe Asn Asn Ile His Ser Ser Trp
 50 55 60

Ala Trp Trp Leu Thr Ser Val Ile Pro Ala Leu Trp Glu Ala Asp Thr
 65 70 75 80

Gly Gly Leu Leu Glu Ala Arg Ser Leu Arg Pro Ala
 85 90

<210> 1890

<211> 92
 <212> PRT
 <213> Homo sapiens

<400> 1890

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Met Glu Leu Val Phe Leu Ile Ile Ser Leu Val Cys Gln His Cys Ser
 1             5             10             15

Pro Asp Ser Ala Gly Asp Leu Cys Val Gln Thr Pro Ser Val Trp Pro
          20             25             30

Arg Thr Leu Met Glu Ile Met Leu Ser Ser Leu Gly Glu Phe Ala Leu
      35             40             45

Ser Asn Asn Gln Arg Phe Val Cys Phe Asn Asn Ile His Ser Ser Trp
      50             55             60

Ala Trp Trp Leu Thr Ser Val Ile Pro Ala Leu Trp Glu Ala Asp Thr
 65             70             75             80

Gly Gly Leu Leu Glu Ala Arg Ser Leu Arg Pro Ala
          85             90

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<210> 1891
 <211> 99
 <212> PRT
 <213> Homo sapiens

<220>

<221> SITE

<222> (96)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1891

```

Met Phe Ala Phe Ser Pro Leu Ser Arg Leu Ala Met Leu Gly Val Cys
 1             5             10             15

Cys Gly Cys Cys Leu Gly Leu Phe Leu Glu Ser Asp Thr Gly Ile Asn
      20             25             30

Phe Leu Asn Phe Asn Tyr Leu Ala Ser Tyr Ser Trp Ser Ser Arg Ser
      35             40             45

Ser Asn Phe Asn Asn Leu Gly Ile Phe Ser Phe Phe Phe Glu Thr
      50             55             60

Glu Ser Arg Ser Val Ala Gln Ala Gly Val Gln Trp His Tyr Leu Ser
 65             70             75             80

Ser Leu Gln Ala Leu Pro Pro Gly Phe Thr Pro Phe Ser Cys Leu Xaa
          85             90             95

Pro Thr Glu

```

<210> 1892

<211> 100
 <212> PRT
 <213> Homo sapiens

<400> 1892

```

Met Phe Ala Phe Ser Pro Leu Ser Arg Leu Ala Met Leu Gly Val Cys
 1             5             10             15
Cys Gly Cys Cys Leu Gly Leu Phe Leu Glu Ser Asp Thr Gly Ile Asn
          20             25             30
Phe Leu Asn Phe Asn Tyr Leu Ala Ser Tyr Ser Trp Ser Ser Arg Ser
          35             40             45
Ser Asn Phe Asn Asn Leu Gly Ile Phe Ser Phe Phe Phe Glu Thr
          50             55             60
Glu Ser Arg Ser Val Ala Gln Ala Gly Val Gln Trp His Tyr Leu Ser
          65             70             75             80
Ser Leu Gln Ala Leu Pro Pro Gly Phe Thr Pro Phe Ser Cys Leu Ser
          85             90             95
Leu Pro Ser Ser
          100

```

<210> 1893
 <211> 167
 <212> PRT
 <213> Homo sapiens

<220>

<221> SITE

<222> (140)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1893

```

Met Leu Gln Gly His Ser Ser Val Phe Gln Ala Leu Leu Gly Thr Phe
 1             5             10             15
Phe Thr Trp Gly Met Thr Ala Ala Gly Ala Ala Leu Val Phe Val Phe
          20             25             30
Ser Ser Gly Gln Arg Arg Ile Leu Asp Gly Ser Leu Gly Phe Ala Ala
          35             40             45
Gly Val Met Leu Ala Ala Ser Tyr Trp Ser Leu Leu Ala Pro Ala Val
          50             55             60
Glu Met Ala Thr Ser Ser Gly Gly Phe Gly Ala Phe Ala Phe Phe Pro
          65             70             75             80
Val Ala Val Gly Phe Thr Leu Gly Ala Ala Phe Val Tyr Leu Ala Asp
          85             90             95
Leu Leu Met Pro His Leu Gly Ala Ala Glu Asp Pro Gln Thr Ala Leu
          100             105             110

```

Ala Leu Asn Phe Gly Ser Thr Leu Met Lys Lys Lys Ser Asp Pro Glu
 115 120 125
 Gly His Ala Leu Leu Phe Pro Glu Arg Ile His Xaa Ile Asp Lys Ser
 130 135 140
 Glu Asn Gly Glu Ala Tyr Gln Arg Lys Lys Ala Ala Ala Thr Gly Leu
 145 150 155 160
 Pro Glu Gly Pro Ala Val Pro
 165

<210> 1894

<211> 167

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (140)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1894

Met Leu Gln Gly His Ser Ser Val Phe Gln Ala Leu Leu Gly Thr Phe
 1 5 10 15
 Phe Thr Trp Gly Met Thr Ala Ala Gly Ala Ala Leu Val Phe Val Phe
 20 25 30
 Ser Ser Gly Gln Arg Arg Ile Leu Asp Gly Ser Leu Gly Phe Ala Ala
 35 40 45
 Gly Val Met Leu Ala Ala Ser Tyr Trp Ser Leu Leu Ala Pro Ala Val
 50 55 60
 Glu Met Ala Thr Ser Ser Gly Gly Phe Gly Ala Phe Ala Phe Phe Pro
 65 70 75 80
 Val Ala Val Gly Phe Thr Leu Gly Ala Ala Phe Val Tyr Leu Ala Asp
 85 90 95
 Leu Leu Met Pro His Leu Gly Ala Ala Glu Asp Pro Gln Thr Ala Leu
 100 105 110
 Ala Leu Asn Phe Gly Ser Thr Leu Met Lys Lys Lys Ser Asp Pro Glu
 115 120 125
 Gly His Ala Leu Leu Phe Pro Glu Arg Ile His Xaa Ile Asp Lys Ser
 130 135 140
 Glu Asn Gly Glu Ala Tyr Gln Arg Lys Lys Ala Ala Ala Thr Gly Leu
 145 150 155 160
 Pro Glu Gly Pro Ala Val Pro
 165

<210> 1895

<211> 93

<212> PRT

<213> Homo sapiens

<400> 1895

Met Lys Glu Gln Ser Leu Pro Ser Phe Leu Trp Lys Met Leu Leu Trp
 1 5 10 15

Tyr Cys Leu Val Cys Cys Asp Thr Leu Glu Ser Phe Val Ser Val Phe
 20 25 30

Ser Leu Tyr Pro Gly Thr Ala Leu Gly Ile Trp Glu Ala Leu Thr Val
 35 40 45

Tyr Gly Arg Cys Ala Gln Phe Phe Cys Phe Gln Gly Ala Lys Glu Val
 50 55 60

Ala Val His Met Glu Thr Phe Leu Phe Leu Glu Cys Glu Gly Trp Gly
 65 70 75 80

Pro Lys Gln Val Pro Asn Ala Ala Ala Phe Leu Leu Val
 85 90

<210> 1896

<211> 41

<212> PRT

<213> Homo sapiens

<400> 1896

Ala Arg Ala Leu Gly Leu Phe Val Ser Met Phe Ser Leu Thr Asn Pro
 1 5 10 15

Ser Pro Val Leu Ser Ala Leu Leu Gly Tyr Thr Gln Leu Asn Asn Leu
 20 25 30

Val His Phe Leu Val Trp Glu Pro Leu
 35 40

<210> 1897

<211> 93

<212> PRT

<213> Homo sapiens

<400> 1897

Met Lys Glu Gln Ser Leu Pro Ser Phe Leu Trp Lys Met Leu Leu Trp
 1 5 10 15

Tyr Cys Leu Val Cys Cys Asp Thr Leu Glu Ser Phe Val Ser Val Phe
 20 25 30

Ser Leu Tyr Pro Gly Thr Ala Leu Gly Ile Trp Glu Ala Leu Thr Val
 35 40 45

Tyr Gly Arg Cys Ala Gln Phe Phe Cys Phe Gln Gly Ala Lys Glu Val
 50 55 60

Ala Val His Met Glu Thr Phe Leu Phe Leu Glu Cys Glu Gly Trp Gly
 65 70 75 80

Pro Lys Gln Val Pro Asn Ala Ala Ala Phe Leu Leu Val
 85 90

<210> 1898

<211> 117

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (89)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (111)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (116)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1898

Met Thr Ser Ile Trp His Arg Pro Val Cys Pro Leu Ser Trp Leu Val
 1 5 10 15

Pro Ser Ala Ala Phe Ser Asn Trp Gly Pro Gly Cys Arg Ala Val Cys
 20 25 30

Ser Pro Arg Trp Ala Thr Pro Ala Lys Ile Pro Thr Pro Lys Cys Asp
 35 40 45

Arg Val Ala His Glu Glu Gly Ser Ala Leu Arg Val Pro Ser Arg Val
 50 55 60

His Ser Ser Ser Gln Leu Leu Arg Val Ala Pro Ala Ser Pro Thr Ser
 65 70 75 80

Ser Leu Ser Pro Val Met Ser Arg Xaa Pro Pro Pro Ser Arg Val Ser
 85 90 95

Val Trp Leu Phe Val Cys Leu Pro Thr Arg Leu Pro Val Pro Xaa Ala
 100 105 110

Leu Pro Leu Xaa Pro
 115

<210> 1899

<211> 38

<212> PRT

<213> Homo sapiens

<400> 1899

Ile Ser His Val Leu Ile Asp Ala Tyr Ile Ser Leu Lys Arg Ile Lys
 1 5 10 15

Ser Ser Cys Asn Pro Thr Thr Leu Gly Met Cys Ser Glu Asp Leu Leu
 20 25 30

Arg Leu Cys His Trp Ser
 35

<210> 1900

<211> 88

<212> PRT

<213> Homo sapiens

<400> 1900

Met Thr Ser Ile Trp His Arg Pro Val Cys Pro Leu Ser Trp Leu Val
 1 5 10 15

Pro Ser Ala Ala Phe Ser Asn Trp Gly Pro Gly Cys Arg Ala Val Cys
 20 25 30

Ser Pro Arg Trp Ala Thr Pro Ala Lys Ile Pro Thr Pro Lys Cys Asp
 35 40 45

Arg Val Ala His Glu Glu Gly Ser Ala Leu Arg Val Pro Ser Arg Val
 50 55 60

His Ser Ser Ser Gln Leu Leu Arg Val Ala Pro Ala Ser Pro Thr Ser
 65 70 75 80

Ser Leu Ser Pro Val Met Ser Arg
 85

<210> 1901

<211> 88

<212> PRT

<213> Homo sapiens

<400> 1901

Met Thr Ser Ile Trp His Arg Pro Val Cys Pro Leu Ser Trp Leu Val
 1 5 10 15

Pro Ser Ala Ala Phe Ser Asn Trp Gly Pro Gly Cys Arg Ala Val Cys
 20 25 30

Ser Pro Arg Trp Ala Thr Pro Ala Lys Ile Pro Thr Pro Lys Cys Asp
 35 40 45

Arg Val Ala His Glu Glu Gly Ser Ala Leu Arg Val Pro Ser Arg Val
 50 55 60

His Ser Ser Ser Gln Leu Leu Arg Val Ala Pro Ala Ser Pro Thr Ser
 65 70 75 80

Ser Leu Ser Pro Val Met Ser Arg
85

<210> 1902

<211> 113

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (57)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (73)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1902

Met Asn Ser Ala Phe Ser Thr Cys Leu Leu Leu Gln Asp Leu Gly
1 5 10 15

Val Pro Leu Thr Leu Thr Gly Leu Pro Pro Ala Leu Gly Leu Ala Pro
20 25 30

Pro Val Leu Glu Pro Arg Ala Pro Gly Leu Glu Leu Pro Leu Trp Gly
35 40 45

Gly Ser Gln Ala Pro Pro Leu Pro Xaa Leu Ser Ser Val Pro Cys Ser
50 55 60

Ala Pro Pro Leu Tyr Leu Ser Val Xaa Arg Pro Leu Thr Glu Arg Arg
65 70 75 80

Cys Arg Val Ser Arg Gly Pro Arg Trp Ser Gln Gly Gln Gly Trp Asp
85 90 95

Leu Gln Gly Thr Arg Gly Ala His Gly Leu Arg His Leu Cys Pro Gly
100 105 110

Ser

<210> 1903

<211> 117

<212> PRT

<213> Homo sapiens

<400> 1903

Met Trp Arg Val Ser Ile Ser Val Pro Trp Leu Trp Ser Ala Trp Pro
1 5 10 15

Ile Ser Ser Val Gly Phe Leu Cys Leu Pro Ala Ser Pro His Pro Ser
20 25 30

Leu Pro Pro Ser Ser Thr Leu His Asp Leu Ala Val Thr Ser Gly Pro

1229

35 40 45
Glu Arg Trp Arg Gln Leu Thr Ala Ala Ala Arg Thr Val Ser Arg Val
50 55 60
Arg Ser Ala Ala Gly Trp Gly Ser Trp Pro Cys Pro Ala Ser Met Asn
65 70 75 80
Ser Cys Pro Arg Thr Val Cys Leu Trp Asn Leu Arg Ser Ile Tyr Cys
85 90 95
Val Cys Ser Ser Arg Leu Ser Thr Ser Cys Arg Lys Ser Pro Arg Ile
100 105 110
Thr Met Pro Thr Gln
115

<210> 1904
<211> 117
<212> PRT
<213> Homo sapiens

<400> 1904
Met Trp Arg Val Ser Ile Ser Val Pro Trp Leu Trp Ser Ala Trp Pro
1 5 10 15
Ile Ser Ser Val Gly Phe Leu Cys Leu Pro Ala Ser Pro His Pro Ser
20 25 30
Leu Pro Pro Ser Ser Thr Leu His Asp Leu Ala Val Thr Ser Gly Pro
35 40 45
Glu Arg Trp Arg Gln Leu Thr Ala Ala Ala Arg Thr Val Ser Arg Val
50 55 60
Arg Ser Ala Ala Gly Trp Gly Ser Trp Pro Cys Pro Ala Ser Met Asn
65 70 75 80
Ser Cys Pro Arg Thr Val Cys Leu Trp Asn Leu Arg Ser Ile Tyr Cys
85 90 95
Val Cys Ser Ser Arg Leu Ser Thr Ser Cys Arg Lys Ser Pro Arg Ile
100 105 110
Thr Met Pro Thr Gln
115

<210> 1905
<211> 124
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (118)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1905

Met Ile Lys Ser Ala Pro Val Gly Pro Val Ala Gly Gly Ile Met Gly
 1 5 10 15

Cys Ile Met Val Leu Val Leu Ala Val Tyr Ala Tyr Arg His Gln Ile
 20 25 30

His Arg Arg Ser His Gln His Met Ser Pro Leu Ala Ala Gln Glu Met
 35 40 45

Ser Val Arg Met Ser Asn Leu Glu Asn Asp Arg Asp Glu Arg Asp Asp
 50 55 60

Asp Ser His Glu Asp Arg Gly Ile Ile Ser Asn Thr Arg Phe Ile Ala
 65 70 75 80

Ala Val Ile Glu Arg His Ala His Ser Pro Glu Arg Arg Arg Arg Tyr
 85 90 95

Trp Gly Arg Ser Gly Thr Glu Ser Asp His Gly Tyr Ser Thr Met Ser
 100 105 110

Pro Gln Glu Asp Ser Xaa Lys Ser Ser Met Gln Gln
 115 120

<210> 1906

<211> 165

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (145)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (147)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (148)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (152)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1906

Met Ala Val Tyr Leu Leu Trp Gln Glu Leu Gly Pro Ala Val Leu Ala
 1 5 10 15

Gly Val Ala Val Leu Val Phe Val Ile Pro Ile Asn Ala Leu Ala Ala
 20 25 30

Thr Lys Ile Lys Lys Leu Lys Val Ser Leu Ala Thr Leu Cys Val Tyr
 35 40 45
 Phe Leu Leu Asp Glu Gly Asn Ile Leu Thr Ala Thr Lys Val Phe Thr
 50 55 60
 Ser Met Ser Leu Phe Asn Ile Leu Arg Ile Pro Leu Phe Glu Leu Pro
 65 70 75 80
 Thr Val Ile Ser Ala Val Val Gln Thr Lys Ile Ser Leu Gly Arg Leu
 85 90 95
 Glu Asp Phe Leu Asn Thr Glu Glu Leu Leu Pro Gln Ser Ile Glu Thr
 100 105 110
 Asn Tyr Thr Gly Asp His Ala Ile Gly Phe Thr Asp Ala Ser Phe Ser
 115 120 125
 Trp Asp Lys Thr Gly Met Pro Val Leu Lys Glu Ala Leu Trp Leu Met
 130 135 140
 Xaa Leu Xaa Xaa Pro Gly Phe Xaa Ile Ala Phe Cys Lys Lys Thr Phe
 145 150 155 160
 Ser Leu Ala Pro Ser
 165

<210> 1907
 <211> 50
 <212> PRT
 <213> Homo sapiens

<400> 1907
 Cys Tyr Arg Cys Ile Phe Ser Ile Val Ser Asn Arg Phe Ile Phe Ser
 1 5 10 15
 Asn Pro Trp Ile Ser Ser Cys Ile Phe Thr Ile Ser Lys Gln Ser Asp
 20 25 30
 Ser Ile Ala Lys Arg Gln Lys Cys Glu Phe Phe Phe Lys Leu Val Asn
 35 40 45
 Thr Cys
 50

<210> 1908
 <211> 84
 <212> PRT
 <213> Homo sapiens

<400> 1908
 Met Ile Met Ser Ser Val Thr Leu Leu Trp Ser Ile Leu His Gln Ala
 1 5 10 15
 Asp Ser Ser Glu Lys Met Thr Ile Ala Ala Ser Ala Ser Leu Thr Thr
 20 25 30

Ile Asn Leu Gly Ala Thr Lys Asn Leu Arg Gln Gln Ile Leu Glu Leu
 35 40 45

Leu Gly Pro Ile Ser Met Asn His Gly Val His Phe Met Ala Ala Ile
 50 55 60

Ala Phe Val Trp Asn Glu Arg Arg Gln Asn Lys Thr Thr Thr Arg Thr
 65 70 75 80

Lys Val Cys Ile

<210> 1909
 <211> 84
 <212> PRT
 <213> Homo sapiens

<400> 1909
 Met Ile Met Ser Ser Val Thr Leu Leu Trp Ser Ile Leu His Gln Ala
 1 5 10 15

Asp Ser Ser Glu Lys Met Thr Ile Ala Ala Ser Ala Ser Leu Thr Thr
 20 25 30

Ile Asn Leu Gly Ala Thr Lys Asn Leu Arg Gln Gln Ile Leu Glu Leu
 35 40 45

Leu Gly Pro Ile Ser Met Asn His Gly Val His Phe Met Ala Ala Ile
 50 55 60

Ala Phe Val Trp Asn Glu Arg Arg Gln Asn Lys Thr Thr Thr Arg Thr
 65 70 75 80

Lys Val Cys Ile

<210> 1910
 <211> 275
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (71)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (153)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1910
 Met Trp Ser Tyr His Leu Ile Gly Leu Ile Trp Thr Ser Glu Phe Ile
 1 5 10 15

Leu Ala Cys Gln Gln Met Thr Ile Ala Gly Ala Val Val Thr Cys Tyr
 20 25 30
 Phe Asn Arg Ser Lys Asn Asp Pro Pro Asp His Pro Ile Leu Ser Ser
 35 40 45
 Leu Ser Ile Leu Phe Phe Tyr His Gln Gly Thr Ile Val Lys Gly Ser
 50 55 60
 Phe Leu Ile Ser Val Val Xaa Ile Pro Arg Ile Ile Val Met Tyr Met
 65 70 75 80
 Gln Asn Ala Leu Lys Glu Gln Gln His Gly Ala Leu Ser Arg Tyr Leu
 85 90 95
 Phe Arg Cys Cys Tyr Cys Cys Phe Trp Cys Leu Asp Lys Tyr Leu Leu
 100 105 110
 His Leu Asn Gln Asn Ala Tyr Thr Thr Thr Ala Ile Asn Gly Thr Asp
 115 120 125
 Phe Cys Thr Ser Ala Lys Asp Ala Phe Lys Ile Leu Ser Lys Asn Ser
 130 135 140
 Ser His Phe Thr Ser Ile Asn Cys Xaa Gly Asp Phe Ile Ile Phe Leu
 145 150 155 160
 Gly Lys Val Leu Val Val Cys Phe Thr Val Phe Gly Gly Leu Met Ala
 165 170 175
 Phe Asn Tyr Asn Arg Ala Phe Gln Val Trp Ala Val Pro Leu Leu Leu
 180 185 190
 Val Ala Phe Phe Ala Tyr Leu Val Ala His Ser Phe Leu Ser Val Phe
 195 200 205
 Glu Thr Val Leu Asp Ala Leu Phe Leu Cys Phe Ala Val Asp Leu Glu
 210 215 220
 Thr Asn Asp Gly Ser Ser Glu Lys Pro Tyr Phe Met Asp Gln Glu Phe
 225 230 235 240
 Leu Ser Phe Val Lys Arg Ser Asn Lys Leu Asn Asn Ala Arg Ala Gln
 245 250 255
 Gln Asp Lys His Ser Leu Arg Asn Glu Glu Gly Thr Glu Leu Gln Ala
 260 265 270
 Ile Val Arg
 275

<210> 1911

<211> 275

<212> PRT

<213> Homo sapiens

<400> 1911

Met Trp Ser Tyr His Leu Ile Gly Leu Ile Trp Thr Ser Glu Phe Ile

1	5	10	15
Leu Ala Cys Gln Gln Met Thr Ile Ala Gly Ala Val Val Thr Cys Tyr	20	25	30
Phe Asn Arg Ser Lys Asn Asp Pro Pro Asp His Pro Ile Leu Ser Ser	35	40	45
Leu Ser Ile Leu Phe Phe Tyr His Gln Gly Thr Ile Val Lys Gly Ser	50	55	60
Phe Leu Ile Ser Val Val Arg Ile Pro Arg Ile Ile Val Met Tyr Met	65	70	75
Gln Asn Ala Leu Lys Glu Gln Gln His Gly Ala Leu Ser Arg Tyr Leu	85	90	95
Phe Arg Cys Cys Tyr Cys Cys Phe Trp Cys Leu Asp Lys Tyr Leu Leu	100	105	110
His Leu Asn Gln Asn Ala Tyr Thr Thr Thr Ala Ile Asn Gly Thr Asp	115	120	125
Phe Cys Thr Ser Ala Lys Asp Ala Phe Lys Ile Leu Ser Lys Asn Ser	130	135	140
Ser His Phe Thr Ser Ile Asn Cys Phe Gly Asp Phe Ile Ile Phe Leu	145	150	155
Gly Lys Val Leu Val Val Cys Phe Thr Val Phe Gly Gly Leu Met Ala	165	170	175
Phe Asn Tyr Asn Arg Ala Phe Gln Val Trp Ala Val Pro Leu Leu Leu	180	185	190
Val Ala Phe Phe Ala Tyr Leu Val Ala His Ser Phe Leu Ser Val Phe	195	200	205
Glu Thr Val Leu Asp Ala Leu Phe Leu Cys Phe Ala Val Asp Leu Glu	210	215	220
Thr Asn Asp Gly Ser Ser Glu Lys Pro Tyr Phe Met Asp Gln Glu Phe	225	230	235
Leu Ser Phe Val Lys Arg Ser Asn Lys Leu Asn Asn Ala Arg Ala Gln	245	250	255
Gln Asp Lys His Ser Leu Arg Asn Glu Glu Gly Thr Glu Leu Gln Ala	260	265	270
Ile Val Arg	275		

<210> 1912

<211> 136

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (133)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1912

Met Ala Cys Ile Leu Lys Arg Lys Ser Val Ile Ala Val Ser Phe Ile
 1 5 10 15

Ala Ala Phe Leu Phe Leu Leu Val Val Arg Leu Val Asn Glu Val Asn
 20 25 30

Phe Pro Leu Leu Leu Asn Cys Phe Gly Gln Pro Gly Thr Lys Trp Ile
 35 40 45

Pro Phe Ser Tyr Thr Tyr Arg Arg Pro Leu Arg Thr His Tyr Gly Tyr
 50 55 60

Ile Asn Val Lys Thr Gln Glu Pro Leu Gln Leu Asp Cys Asp Leu Cys
 65 70 75 80

Ala Ile Val Ser Asn Ser Gly Gln Met Val Gly Gln Lys Val Gly Asn
 85 90 95

Glu Ile Asp Arg Ser Ser Cys Ile Trp Arg Met Asn Asn Ala Pro Thr
 100 105 110

Lys Gly Tyr Glu Glu Asp Val Gly Arg Met Thr Met Ile Arg Val Val
 115 120 125

Pro Ile Pro Ala Xaa Leu Phe Cys
 130 135

<210> 1913

<211> 64

<212> PRT

<213> Homo sapiens

<400> 1913

Val Phe Thr Ser Ala Lys Tyr Tyr Gly Glu Leu Ser Leu Lys Cys Ala
 1 5 10 15

Ile Leu Asp Lys Gly Leu Leu Pro Thr Leu Phe Cys Asn Phe Asp Thr
 20 25 30

Ser Ile Phe Thr Pro Ile Asn Ile Thr Lys Pro Gln Phe Tyr Arg Trp
 35 40 45

Lys Glu Leu Leu Phe Phe Cys Cys Ser Leu Met Gln Phe Leu Ile Leu
 50 55 60

<210> 1914

<211> 305

<212> PRT

<213> Homo sapiens

<400> 1914

Met Ala Cys Ile Leu Lys Arg Lys Ser Val Ile Ala Val Ser Phe Ile
 1 5 10 15

Ala Ala Phe Leu Phe Leu Leu Val Val Arg Leu Val Asn Glu Val Asn
 20 25 30

Phe Pro Leu Leu Leu Asn Cys Phe Gly Gln Pro Gly Thr Lys Trp Ile
 35 40 45

Pro Phe Ser Tyr Thr Tyr Arg Arg Pro Leu Arg Thr His Tyr Gly Tyr
 50 55 60

Ile Asn Val Lys Thr Gln Glu Pro Leu Gln Leu Asp Cys Asp Leu Cys
 65 70 75 80

Ala Ile Val Ser Asn Ser Gly Gln Met Val Gly Gln Lys Val Gly Asn
 85 90 95

Glu Ile Asp Arg Ser Ser Cys Ile Trp Arg Met Asn Asn Ala Pro Thr
 100 105 110

Lys Gly Tyr Glu Glu Asp Val Gly Arg Met Thr Met Ile Arg Val Val
 115 120 125

Ser His Thr Ser Val Pro Leu Leu Leu Lys Asn Pro Asp Tyr Phe Phe
 130 135 140

Lys Glu Ala Asn Thr Thr Ile Tyr Val Ile Trp Gly Pro Phe Arg Asn
 145 150 155 160

Met Arg Lys Asp Gly Asn Gly Ile Val Tyr Asn Met Leu Lys Lys Thr
 165 170 175

Val Gly Ile Tyr Pro Asn Ala Gln Ile Tyr Val Thr Thr Glu Lys Arg
 180 185 190

Met Ser Tyr Cys Asp Gly Val Phe Lys Lys Glu Thr Gly Lys Asp Arg
 195 200 205

Val Gln Ser Gly Ser Tyr Leu Ser Thr Gly Trp Phe Thr Phe Ile Leu
 210 215 220

Ala Met Asp Ala Cys Tyr Gly Ile His Val Tyr Gly Met Ile Asn Asp
 225 230 235 240

Thr Tyr Cys Lys Thr Glu Gly Tyr Arg Lys Val Pro Tyr His Tyr Tyr
 245 250 255

Glu Gln Gly Arg Asp Glu Cys Asp Glu Tyr Phe Leu His Glu His Ala
 260 265 270

Pro Tyr Gly Gly His Arg Phe Ile Thr Glu Lys Lys Val Phe Ala Lys
 275 280 285

Trp Ala Lys Lys His Arg Ile Ile Phe Thr His Pro Asn Trp Thr Leu
 290 295 300

Ser
305

<210> 1915

<211> 305

<212> PRT

<213> Homo sapiens

<400> 1915

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Met Ala Cys Ile Leu Lys Arg Lys Ser Val Ile Ala Val Ser Phe Ile
  1           5           10           15

Ala Ala Phe Leu Phe Leu Leu Val Val Arg Leu Val Asn Glu Val Asn
      20           25           30

Phe Pro Leu Leu Leu Asn Cys Phe Gly Gln Pro Gly Thr Lys Trp Ile
      35           40           45

Pro Phe Ser Tyr Thr Tyr Arg Arg Pro Leu Arg Thr His Tyr Gly Tyr
      50           55           60

Ile Asn Val Lys Thr Gln Glu Pro Leu Gln Leu Asp Cys Asp Leu Cys
      65           70           75           80

Ala Ile Val Ser Asn Ser Gly Gln Met Val Gly Gln Lys Val Gly Asn
      85           90           95

Glu Ile Asp Arg Ser Ser Cys Ile Trp Arg Met Asn Asn Ala Pro Thr
      100          105          110

Lys Gly Tyr Glu Glu Asp Val Gly Arg Met Thr Met Ile Arg Val Val
      115          120          125

Ser His Thr Ser Val Pro Leu Leu Leu Lys Asn Pro Asp Tyr Phe Phe
      130          135          140

Lys Glu Ala Asn Thr Thr Ile Tyr Val Ile Trp Gly Pro Phe Arg Asn
      145          150          155          160

Met Arg Lys Asp Gly Asn Gly Ile Val Tyr Asn Met Leu Lys Lys Thr
      165          170          175

Val Gly Ile Tyr Pro Asn Ala Gln Ile Tyr Val Thr Thr Glu Lys Arg
      180          185          190

Met Ser Tyr Cys Asp Gly Val Phe Lys Lys Glu Thr Gly Lys Asp Arg
      195          200          205

Val Gln Ser Gly Ser Tyr Leu Ser Thr Gly Trp Phe Thr Phe Ile Leu
      210          215          220

Ala Met Asp Ala Cys Tyr Gly Ile His Val Tyr Gly Met Ile Asn Asp
      225          230          235          240

Thr Tyr Cys Lys Thr Glu Gly Tyr Arg Lys Val Pro Tyr His Tyr Tyr
      245          250          255

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Glu Gln Gly Arg Asp Glu Cys Asp Glu Tyr Phe Leu His Glu His Ala
 260. . 265 270

Pro Tyr Gly Gly His Arg Phe Ile Thr Glu Lys Lys Val Phe Ala Lys
 275 280 285

Trp Ala Lys Lys His Arg Ile Ile Phe Thr His Pro Asn Trp Thr Leu
 290 295 300

Ser
 305

<210> 1916

<211> 80

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (65)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1916

Met Asp Ser Gly Gly Trp Met Asp Gly Asp Thr Arg Gln Ala Phe Pro
 1 5 10 15

Cys Pro Trp Gly Leu Val Ser Leu Pro Leu Ala Gly Val Thr Leu Ala
 20 25 30

Leu His Val Phe Thr Ala Ser Ala Leu Pro Arg Glu Leu Arg Ser Glu
 35 40 45

Lys Asp Trp Pro Gly Gln Ser Pro Gly Pro Ile Val Ser Val Pro Gly
 50 55 60

Xaa Gln Glu Gly Ile Leu Glu Gly Gly Pro Gly Thr Gln Phe Ala Leu
 65 70 75 80

<210> 1917

<211> 331

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (249)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (257)

<223> Xaa equals any of the naturally occurring L-amino acids.

<220>

<221> SITE

<222> (298)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (300)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (301)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1917

Met	Asp	Arg	Leu	Lys	Ser	His	Leu	Thr	Val	Cys	Phe	Leu	Pro	Ser	Val
1				5					10					15	

Pro	Phe	Leu	Ile	Leu	Val	Ser	Thr	Leu	Ala	Thr	Ala	Lys	Ser	Val	Thr
			20					25						30	

Asn	Ser	Thr	Leu	Asn	Gly	Thr	Asn	Val	Val	Leu	Gly	Ser	Val	Pro	Val
		35					40					45			

Ile	Ile	Ala	Arg	Thr	Asp	His	Ile	Ile	Val	Lys	Glu	Gly	Asn	Ser	Ala
	50					55					60				

Leu	Ile	Asn	Cys	Ser	Val	Tyr	Gly	Ile	Pro	Asp	Pro	Gln	Phe	Lys	Trp
65					70					75					80

Tyr	Asn	Ser	Ile	Gly	Lys	Leu	Leu	Lys	Glu	Glu	Glu	Asp	Glu	Lys	Glu
				85					90					95	

Arg	Gly	Gly	Gly	Lys	Trp	Gln	Met	His	Asp	Ser	Gly	Leu	Leu	Asn	Ile
			100					105						110	

Thr	Lys	Val	Ser	Phe	Ser	Asp	Arg	Gly	Lys	Tyr	Thr	Cys	Val	Ala	Ser
		115					120					125			

Asn	Ile	Tyr	Gly	Thr	Val	Asn	Asn	Thr	Val	Thr	Leu	Arg	Val	Ile	Phe
	130						135					140			

Thr	Ser	Gly	Asp	Met	Gly	Val	Tyr	Tyr	Met	Val	Val	Cys	Leu	Val	Ala
145					150					155					160

Phe	Thr	Ile	Val	Met	Val	Leu	Asn	Ile	Thr	Arg	Leu	Cys	Met	Met	Ser
				165					170					175	

Ser	His	Leu	Lys	Lys	Thr	Glu	Lys	Ala	Ile	Asn	Glu	Phe	Phe	Arg	Thr
		180						185						190	

Glu	Gly	Ala	Glu	Lys	Leu	Gln	Lys	Ala	Phe	Glu	Ile	Ala	Lys	Arg	Ile
		195					200					205			

Pro	Ile	Ile	Thr	Ser	Ala	Lys	Thr	Leu	Glu	Leu	Ala	Lys	Val	Thr	Gln
	210					215					220				

Phe	Lys	Thr	Met	Glu	Phe	Ala	Arg	Tyr	Ile	Glu	Glu	Leu	Ala	Arg	Ser
225					230					235					240

Met Gln Gly Ala Ile Met Gly Ile Phe Phe Cys Leu Ser Gly Val Gly
1 5 10 15
Ser Leu Leu Gly Ser Ser Leu Val Ala Leu Leu Ser Leu Pro Gly Gly
20 25 30
Trp Leu His Cys Pro Lys Asp Phe Gly Asn Ile Asn Asn Cys Arg Met
35 40 45
Asp Leu Tyr Phe Phe Leu Leu Ala Gly Ile Gln Ala Val Thr Ala Leu

50

55

60

Leu Phe Val Trp Ile Ala Gly Arg Tyr Glu Arg Ala Ser Gln Gly Pro
 65 70 75 80

Ala Ser His Ser Arg Phe Ser Arg Asp Arg Gly
 85 90

<210> 1920

<211> 91

<212> PRT

<213> Homo sapiens

<400> 1920

Met Gln Gly Ala Ile Met Gly Ile Phe Phe Cys Leu Ser Gly Val Gly
 1 5 10 15

Ser Leu Leu Gly Ser Ser Leu Val Ala Leu Leu Ser Leu Pro Gly Gly
 20 25 30

Trp Leu His Cys Pro Lys Asp Phe Gly Asn Ile Asn Asn Cys Arg Met
 35 40 45

Asp Leu Tyr Phe Phe Leu Leu Ala Gly Ile Gln Ala Val Thr Ala Leu
 50 55 60

Leu Phe Val Trp Ile Ala Gly Arg Tyr Glu Arg Ala Ser Gln Gly Pro
 65 70 75 80

Ala Ser His Ser Arg Phe Ser Arg Asp Arg Gly
 85 90

<210> 1921

<211> 108

<212> PRT

<213> Homo sapiens

<400> 1921

Met Ser Leu Thr Pro Pro Thr Pro Val Leu Phe Leu Phe Leu Ser Leu
 1 5 10 15

Leu Trp Ala Arg Phe Phe Leu Ser Arg Leu Lys Cys Pro Gly Gly Cys
 20 25 30

Leu Cys Trp Pro Leu Leu Leu Ser Arg Gly Ser Ser Ala Ala Pro Trp
 35 40 45

Ala Ser Val Pro Met Asp Gly Ala Ala His Ala Ala Ile Ser Ala Pro
 50 55 60

Gly Leu Ser Val Gln Leu Leu Pro Arg Gln Leu Ala Ser Pro Ser Ala
 65 70 75 80

Asn Thr Glu Leu Arg Val Leu Leu Leu Pro Ala Arg Val Arg His Tyr
 85 90 95

Leu Pro Ser Ser Phe His Gln Val Leu Gly Ser Ser
 100 105

<210> 1922

<211> 108

<212> PRT

<213> Homo sapiens

<400> 1922

Met Ser Leu Thr Pro Pro Thr Pro Val Leu Phe Leu Phe Leu Ser Leu
 1 5 10 15

Leu Trp Ala Arg Phe Phe Leu Ser Arg Leu Lys Cys Pro Gly Gly Cys
 20 25 30

Leu Cys Trp Pro Leu Leu Leu Ser Arg Gly Ser Ser Ala Ala Pro Trp
 35 40 45

Ala Ser Val Pro Met Asp Gly Ala Ala His Ala Ala Ile Ser Ala Pro
 50 55 60

Gly Leu Ser Val Gln Leu Leu Pro Arg Gln Leu Ala Ser Pro Ser Ala
 65 70 75 80

Asn Thr Glu Leu Arg Val Leu Leu Leu Pro Ala Arg Val Arg His Tyr
 85 90 95

Leu Pro Ser Ser Phe His Gln Val Leu Gly Ser Ser
 100 105

<210> 1923

<211> 81

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (29)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1923

Ser Phe Leu Phe Phe Phe Phe Phe Phe Glu Thr Gly Phe Arg Ser
 1 5 10 15

Val Phe Gln Ala Gly Val Gln Trp Cys Asp Leu Gly Xaa Leu Pro Pro
 20 25 30

Arg Phe Lys Lys Phe Ser Cys Leu Ser Leu Pro Ser Ser Trp Asp Tyr
 35 40 45

Arg His Ala Leu Pro His Pro Val Thr Phe Phe Cys Val Phe Leu Val
 50 55 60

Glu Met Ala Phe Ala Met Leu Ala Met Ala Gly Leu Lys Leu Leu Ala
 65 70 75 80

Ser

<210> 1924

<211> 108

<212> PRT

<213> Homo sapiens

<400> 1924

Met Ser Leu Thr Pro Pro Thr Pro Val Leu Phe Leu Phe Leu Ser Leu
 1 5 10 15

Leu Trp Ala Arg Phe Phe Leu Ser Arg Leu Lys Cys Pro Gly Gly Cys
 20 25 30

Leu Cys Trp Pro Leu Leu Leu Ser Arg Gly Ser Ser Ala Ala Pro Trp
 35 40 45

Ala Ser Val Pro Met Asp Gly Ala Ala His Ala Ala Ile Ser Ala Pro
 50 55 60

Gly Leu Ser Val Gln Leu Leu Pro Arg Gln Leu Ala Ser Pro Ser Ala
 65 70 75 80

Asn Thr Glu Leu Arg Val Leu Leu Leu Pro Ala Arg Val Arg His Tyr
 85 90 95

Leu Pro Ser Ser Phe His Gln Val Leu Gly Ser Ser
 100 105

<210> 1925

<211> 136

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (59)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (111)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1925

Met Tyr Gln Pro His Thr Gln Ser Trp Phe Pro Trp Cys Leu Ile Leu
 1 5 10 15

Ser Ser Ser Gln Ala Gly Thr Arg Gly Leu Ser Trp His Leu Ala Asn
 20 25 30

Ala Pro Val Lys Pro Gly Met Gly Leu Ala Phe Ala Leu Ile Arg Leu
 35 40 45

Asp Ser Leu Leu Thr Cys Tyr Leu Pro Cys Xaa His Val Arg Leu Val

1244

50 55 60
 Arg Ala His Thr Cys Thr Ser Pro Thr Arg Pro Leu Leu Ser Tyr Gln
 65 70 75 80
 Ser Val Pro Ala Ala Ser Met Ile Cys Pro Pro Cys Glu Ile Pro His
 85 90 95
 Gly Glu Gly Ser Phe Glu Val Ala Gly Arg Ser Thr Glu Met Xaa His
 100 105 110
 Leu Pro Val Glu Ile Pro Arg Leu Pro Gly Gln Cys Gln Gln Ser Gln
 115 120 125
 Lys Thr His Pro Leu Ala Trp Ser
 130 135

<210> 1926
 <211> 136
 <212> PRT
 <213> Homo sapiens

<400> 1926
 Met Tyr Gln Pro His Thr Gln Ser Trp Phe Pro Trp Cys Leu Ile Leu
 1 5 10 15
 Ser Ser Ser Gln Ala Gly Thr Arg Gly Leu Ser Trp His Leu Ala Asn
 20 25 30
 Ala Pro Val Lys Pro Gly Met Gly Leu Ala Phe Ala Leu Ile Arg Leu
 35 40 45
 Asp Ser Leu Leu Thr Cys Tyr Leu Pro Cys Leu His Val Arg Leu Val
 50 55 60
 Arg Ala His Thr Cys Thr Ser Pro Thr Arg Pro Leu Leu Ser Tyr Gln
 65 70 75 80
 Ser Val Pro Ala Ala Ser Met Ile Cys Pro Pro Cys Glu Ile Pro His
 85 90 95
 Gly Glu Gly Ser Phe Glu Val Ala Gly Arg Ser Thr Glu Met Ser His
 100 105 110
 Leu Pro Val Glu Ile Pro Arg Leu Pro Gly Gln Cys Gln Gln Ser Gln
 115 120 125
 Lys Thr His Pro Leu Ala Trp Ser
 130 135

<210> 1927
 <211> 86
 <212> PRT
 <213> Homo sapiens

<400> 1927

Met Leu Leu Gly Gly Arg Leu Leu Thr Gly Leu Ala Cys Gly Val Ala
 1 5 10 15
 Ser Leu Val Ala Pro Val Ser Val Pro Ser Leu Glu Cys Pro Val Ser
 20 25 30
 Arg Pro Glu Thr Glu Gly Glu Trp Asp Lys Pro Leu Pro Arg Pro Gly
 35 40 45
 Gly Ala Ala Pro Pro Gly Gly Thr Phe Trp Val Pro Gly Leu Lys Ser
 50 55 60
 Leu Arg Tyr Leu Ala Val Pro Pro Val Asp Pro Gly Lys Asp Pro Thr
 65 70 75 80
 Val Leu Ser Ile Leu His
 85

<210> 1928

<211> 99

<212> PRT

<213> Homo sapiens

<400> 1928

Met Leu Leu Leu Leu His Ile His Val Phe Gly His Ser Val Pro Ala
 1 5 10 15
 Ala Trp Ser Ala Ser Cys Val Gln Ile Leu Pro Val Leu Leu Arg Ile
 20 25 30
 Arg Ser Gln Ile Leu Ile His Thr Ile Leu Phe Ala Ala Tyr Thr Leu
 35 40 45
 Ala Phe Leu Asn Phe Phe Leu Ser Pro Asn Tyr Ala Val Phe Cys Leu
 50 55 60
 Ala Ile Val Leu Leu His Thr Ser Ser Phe Gly Leu Glu Tyr Pro Ser
 65 70 75 80
 Leu Cys Leu Phe Phe Leu Lys Glu Thr Gly Ser Gln Cys Gly Leu Val
 85 90 95
 Ser Asn Ser

<210> 1929

<211> 99

<212> PRT

<213> Homo sapiens

<400> 1929

Met Leu Leu Leu Leu His Ile His Val Phe Gly His Ser Val Pro Ala
 1 5 10 15
 Ala Trp Ser Ala Ser Cys Val Gln Ile Leu Pro Val Leu Leu Arg Ile
 20 25 30

Arg Ser Gln Ile Leu Ile His Thr Ile Leu Phe Ala Ala Tyr Thr Leu
 35 40 45

Ala Phe Leu Asn Phe Phe Leu Ser Pro Asn Tyr Ala Val Phe Cys Leu
 50 55 60

Ala Ile Val Leu Leu His Thr Ser Ser Phe Gly Leu Glu Tyr Pro Ser
 65 70 75 80

Leu Cys Leu Phe Phe Leu Lys Glu Thr Gly Ser Gln Cys Gly Leu Val
 85 90 95

Ser Asn Ser

<210> 1930
 <211> 84
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (65)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1930
 Met Trp Ser Ser Ser Trp Asp His Arg Ile Thr Thr Pro Arg Leu Ala
 1 5 10 15

Asn Phe Phe Phe Phe Phe Phe Phe Phe Phe Phe Val Glu Met Gly Phe
 20 25 30

Arg Tyr Val Gly Gln Ala Gly Leu Lys Leu Leu Ala Ser Ser Asn Leu
 35 40 45

Pro Ala Leu Ala Ser Gln Ser Ala Gly Ile Thr Gly Val Ser His His
 50 55 60

Xaa Trp Leu Gly Gly Leu Ile Lys Thr Pro Ile Leu Ser Leu Thr Pro
 65 70 75 80

Arg Val Ser Gly

<210> 1931
 <211> 178
 <212> PRT
 <213> Homo sapiens

<400> 1931
 Met Ile Lys Arg Lys Val Asp Arg Glu Asp Lys Leu Asp Ile Pro Met
 1 5 10 15

Phe Phe Gly Phe Val Gly Leu Phe Asn Leu Leu Leu Leu Trp Pro Gly
 20 25 30

Phe Phe Leu Leu His Tyr Thr Gly Phe Glu Asp Phe Glu Phe Pro Asn
 35 40 45
 Lys Val Val Leu Met Cys Ile Ile Ile Asn Gly Leu Ile Gly Thr Val
 50 55 60
 Leu Ser Glu Phe Leu Trp Leu Trp Gly Cys Phe Leu Thr Ser Ser Leu
 65 70 75 80
 Ile Gly Thr Leu Ala Leu Ser Leu Thr Ile Pro Leu Ser Ile Ile Ala
 85 90 95
 Asp Met Cys Met Gln Lys Val Gln Phe Ser Trp Leu Phe Phe Ala Gly
 100 105 110
 Ala Ile Pro Val Phe Phe Ser Phe Phe Ile Val Thr Leu Leu Cys His
 115 120 125
 Tyr Asn Asn Trp Asp Pro Val Met Val Gly Ile Arg Arg Ile Phe Ala
 130 135 140
 Phe Ile Cys Arg Lys His Arg Ile Gln Arg Val Pro Glu Asp Ser Glu
 145 150 155 160
 Gln Cys Glu Ser Leu Ile Ser Met His Ser Val Ser Gln Glu Asp Gly
 165 170 175
 Ala Ser

<210> 1932

<211> 468

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (125)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1932

Met Asn Ser Gln Asn Ser Gly Phe Thr Gln Arg Arg Arg Met Ala Leu
 1 5 10 15

Gly Ile Xaa Ile Leu Leu Leu Val Asp Val Ile Trp Val Ala Ser Ser
 20 25 30

Glu Leu Thr Ser Tyr Val Phe Thr Gln Tyr Asn Lys Pro Phe Phe Ser
 35 40 45

Thr Phe Ala Lys Thr Ser Met Phe Val Leu Tyr Leu Leu Gly Phe Ile
 50 55 60

Ile Trp Lys Pro Trp Arg Gln Gln Cys Thr Arg Gly Leu Arg Gly Lys
 65 70 75 80
 His Ala Ala Phe Phe Ala Asp Ala Glu Gly Tyr Phe Ala Ala Cys Thr
 85 90 95
 Thr Asp Thr Thr Met Asn Ser Ser Leu Ser Glu Pro Leu Tyr Val Pro
 100 105 110
 Val Lys Phe His Asp Leu Pro Ser Glu Lys Pro Glu Xaa Thr Asn Ile
 115 120 125
 Asp Thr Glu Lys Thr Pro Lys Lys Ser Arg Val Arg Phe Ser Asn Ile
 130 135 140
 Met Glu Ile Arg Gln Leu Pro Ser Ser His Ala Leu Glu Ala Lys Leu
 145 150 155 160
 Ser Arg Met Ser Tyr Pro Val Lys Glu Gln Glu Ser Ile Leu Lys Thr
 165 170 175
 Val Gly Lys Leu Thr Ala Thr Gln Val Ala Lys Ile Ser Phe Phe Phe
 180 185 190
 Cys Phe Val Trp Phe Leu Ala Asn Leu Ser Tyr Gln Glu Ala Leu Ser
 195 200 205
 Asp Thr Gln Val Ala Ile Val Asn Ile Leu Ser Ser Thr Ser Gly Leu
 210 215 220
 Phe Thr Leu Ile Leu Ala Ala Val Phe Pro Ser Asn Ser Gly Asp Arg
 225 230 235 240
 Phe Thr Leu Ser Lys Leu Leu Ala Val Ile Leu Ser Ile Gly Gly Val
 245 250 255
 Val Leu Val Asn Leu Ala Gly Ser Glu Lys Pro Ala Gly Arg Asp Thr
 260 265 270
 Val Gly Ser Ile Trp Ser Leu Ala Gly Ala Met Leu Tyr Ala Val Tyr
 275 280 285
 Ile Val Met Ile Lys Arg Lys Val Asp Arg Glu Asp Lys Leu Asp Ile
 290 295 300
 Pro Met Phe Phe Gly Phe Val Gly Leu Phe Asn Leu Leu Leu Leu Trp
 305 310 315 320
 Pro Gly Phe Phe Leu Leu His Tyr Thr Gly Phe Glu Asp Phe Glu Phe
 325 330 335
 Pro Asn Lys Val Val Leu Met Cys Ile Ile Ile Asn Gly Leu Ile Gly
 340 345 350
 Thr Val Leu Ser Glu Phe Leu Trp Leu Trp Gly Cys Phe Leu Thr Ser
 355 360 365
 Ser Leu Ile Gly Thr Leu Ala Leu Ser Leu Thr Ile Pro Leu Ser Ile
 370 375 380

Ile Ala Asp Met Cys Met Gln Lys Val Gln Phe Ser Trp Leu Phe Phe
 385 390 395 400
 Ala Gly Ala Ile Pro Val Phe Phe Ser Phe Phe Ile Val Thr Leu Leu
 405 410 415
 Cys His Tyr Asn Asn Trp Asp Pro Val Met Val Gly Ile Arg Arg Ile
 420 425 430
 Phe Ala Phe Ile Cys Arg Lys His Arg Ile Gln Arg Val Pro Glu Asp
 435 440 445
 Ser Glu Gln Cys Glu Ser Leu Ile Ser Met His Ser Val Ser Gln Glu
 450 455 460
 Asp Gly Ala Ser
 465

<210> 1933
 <211> 178
 <212> PRT
 <213> Homo sapiens

<400> 1933
 Met Ile Lys Arg Lys Val Asp Arg Glu Asp Lys Leu Asp Ile Pro Met
 1 5 10 15
 Phe Phe Gly Phe Val Gly Leu Phe Asn Leu Leu Leu Leu Trp Pro Gly
 20 25 30
 Phe Phe Leu Leu His Tyr Thr Gly Phe Glu Asp Phe Glu Phe Pro Asn
 35 40 45
 Lys Val Val Leu Met Cys Ile Ile Ile Asn Gly Leu Ile Gly Thr Val
 50 55 60
 Leu Ser Glu Phe Leu Trp Leu Trp Gly Cys Phe Leu Thr Ser Ser Leu
 65 70 75 80
 Ile Gly Thr Leu Ala Leu Ser Leu Thr Ile Pro Leu Ser Ile Ile Ala
 85 90 95
 Asp Met Cys Met Gln Lys Val Gln Phe Ser Trp Leu Phe Phe Ala Gly
 100 105 110
 Ala Ile Pro Val Phe Phe Ser Phe Phe Ile Val Thr Leu Leu Cys His
 115 120 125
 Tyr Asn Asn Trp Asp Pro Val Met Val Gly Ile Arg Arg Ile Phe Ala
 130 135 140
 Phe Ile Cys Arg Lys His Arg Ile Gln Arg Val Pro Glu Asp Ser Glu
 145 150 155 160
 Gln Cys Glu Ser Leu Ile Ser Met His Ser Val Ser Gln Glu Asp Gly
 165 170 175

Ala Ser

<210> 1934

<211> 116

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (95)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (112)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1934

Met	Leu	Val	Ala	Trp	Cys	Leu	Ala	Pro	Gly	Asp	Leu	Leu	Leu	Val
1				5					10				15	

Ile	Ile	Thr	Leu	Pro	Arg	Lys	Glu	Val	Thr	Gly	Ser	Met	Ser	Thr	Val
			20					25						30	

Cys	Gln	Cys	Glu	Ala	Gln	Pro	Ala	Met	Leu	Pro	Lys	Gly	His	Phe	Thr
		35					40						45		

His	His	Ser	Pro	Lys	Ala	Ala	Arg	Lys	Ala	Gln	Glu	Gly	Thr	Arg	Lys
		50					55					60			

Ala	Arg	Trp	Val	Ala	Leu	Glu	Asp	Ser	Ala	Pro	Phe	His	Pro	Ser	Pro
	65				70					75					80

Gly	Trp	Gly	Leu	Ile	Leu	Gln	Leu	His	Pro	Gln	Pro	Met	Asn	Xaa	Ser
			85						90					95	

Gln	Ser	Ala	Trp	Lys	His	Cys	Cys	Trp	Lys	Asn	Cys	Glu	Glu	Pro	Xaa
			100					105					110		

Glu	Gly	Lys	Lys
		115	

<210> 1935

<211> 74

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (69)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1935

Lys	Thr	Pro	His	Ser	Trp	Val	Ile	His	Ala	Gly	Glu	Ala	Ser	Cys	His
1				5						10				15	

Val Glu Arg Thr Leu Lys Gln Ser Tyr Gly Ala Ala His Met Arg Gly
 20 25 30

Thr Glu Ala Pro Ser His Gln Pro Cys Glu Pro Pro Trp Lys Trp Ser
 35 40 45

Leu Gln His Gln Ser Ser Phe Gln Met Ile Ala Ala Pro Asn Thr Ile
 50 55 60

Leu Thr Ser Ile Xaa Arg Thr Ser Ala Ser
 65 70

<210> 1936

<211> 127

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (85)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (88)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (95)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (107)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (123)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1936

Met Lys Arg Glu Gly Arg Cys Val Leu His Met His Pro Ser Ser Pro
 1 5 10 15

Pro Ser Arg Leu Ser Phe Phe Leu Phe Leu Arg Gln Ser Leu Ala Leu
 20 25 30

Leu Pro Arg Leu Glu Cys Ser Gly Val Ile Leu Ala Gln Arg Asn Leu
 35 40 45

Arg Leu Leu Gly Ser Arg Asp Ser Pro Ala Ser Ala Ser Cys Cys Pro
 50 55 60

Pro Ser Ser Leu Ser Arg Arg Trp Arg Trp Arg Glu Val Pro Glu Gly
 65 70 75 80

Leu Trp Gly Leu Xaa Trp Val Xaa Leu Cys Ser Leu Ser Ala Xaa Trp
 85 90 95

Thr Ala Leu Lys Gly Ser Ser Pro Pro Phe Xaa Ala Lys Gln Leu Gly
 100 105 110

His His Arg Asn Gly Ile Asn Leu Ala Glu Xaa Ser Leu Pro Lys
 115 120 125

<210> 1937

<211> 44

<212> PRT

<213> Homo sapiens

<400> 1937

Leu Met Pro Val Ile Pro Ala Ile Trp Glu Thr Glu Ala Gly Gly Leu
 1 5 10 15

Leu Glu Ala Arg Ser Leu Arg Gln Pro Gly Gln His Ser Glu Thr Pro
 20 25 30

Ser Leu Gln Glu Thr Phe Lys Asn Lys Asn Ser Ser
 35 40

<210> 1938

<211> 89

<212> PRT

<213> Homo sapiens

<400> 1938

Met Asn His Arg Ala Trp Pro Phe Leu Pro Phe Phe Phe Phe Phe Leu
 1 5 10 15

Arg Arg Ser Leu Ala Leu Ser Pro Arg Leu Glu Cys Ser Gly Ala Val
 20 25 30

Ser Ala His Cys Gly Leu Arg Leu Pro Gly Ser Arg His Ser Pro Ala
 35 40 45

Ser Ala Ser Arg Val Ala Gly Thr Ala Gly Ala Arg Tyr His Ala Arg
 50 55 60

Leu Val Phe Phe Val Phe Leu Val Glu Thr Gly Phe His Arg Val Gly
 65 70 75 80

Gln Asp Gly Leu Asp Leu Leu Thr Ser
 85

<210> 1939

<211> 89

<212> PRT

<213> Homo sapiens

<400> 1939

Met Asn His Arg Ala Trp Pro Phe Leu Pro Phe Phe Phe Phe Phe Leu
 1 5 10 15

Arg Arg Ser Leu Ala Leu Ser Pro Arg Leu Glu Cys Ser Gly Ala Val
 20 25 30

Ser Ala His Cys Gly Leu Arg Leu Pro Gly Ser Arg His Ser Pro Ala
 35 40 45

Ser Ala Ser Arg Val Ala Gly Thr Ala Gly Ala Arg Tyr His Ala Arg
 50 55 60

Leu Val Phe Phe Val Phe Leu Val Glu Thr Gly Phe His Arg Val Gly
 65 70 75 80

Gln Asp Gly Leu Asp Leu Leu Thr Ser
 85

<210> 1940

<211> 223

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (159)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (208)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (218)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (221)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1940

Met Leu His Val Thr Arg Gly Val Trp Gly Ser Arg Val Arg Val Trp
 1 5 10 15

Pro Leu Leu Pro Ala Leu Leu Gly Pro Pro Arg Ala Leu Ser Ser Leu
 20 25 30

Ala Ala Lys Met Gly Glu Tyr Arg Lys Met Trp Asn Pro Arg Glu Pro
 35 40 45

Arg Asp Trp Ala Gln Gln Tyr Arg Glu Arg Phe Ile Pro Phe Ser Lys
 50 55 60

Glu Gln Leu Leu Arg Leu Leu Ile Gln Ala Leu Tyr Asp Pro Ile Asn
 1254

65	70	75	80
Pro Asp Arg Glu Thr Leu Asp Gln Pro Ser Leu Thr Asp Pro Gln Arg	85	90	95
Leu Ser Asn Glu Gln Glu Val Leu Arg Ala Leu Glu Pro Leu Leu Ala	100	105	110
Gln Ala Asn Phe Ser Pro Leu Ser Glu Asp Thr Leu Ala Tyr Ala Leu	115	120	125
Val Val His His Pro Gln Asp Glu Val Gln Val Thr Val Asn Leu Asp	130	135	140
Gln Tyr Val Tyr Ile His Phe Trp Ala Leu Gly Gln Pro Ser Xaa Ala	145	150	155
Asp Ala Pro Glu Val Gln Arg Gly Leu Gln Ala Cys Leu Leu Ser Pro	165	170	175
Lys Leu Pro Leu Arg Glu Arg Arg Tyr Phe Lys Arg Val Val Leu Ala	180	185	190
Ser Pro Asp Gln Asn Gly Asp Thr Trp Asp Leu Lys Lys Phe Ser Xaa	195	200	205
Thr Pro Pro Leu Gly Lys Ala Trp Glu Xaa Leu Leu Xaa Gly Thr	210	215	220

<210> 1941

<211> 169

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (18)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (24)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (108)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1941

Ser Pro Lys Xaa Pro Pro Ala Glu Arg Arg Tyr Phe Lys Arg Val Val	1	5	10	15
---	---	---	----	----

Leu Xaa Ala Arg Thr Lys Arg Xaa His Leu Val Leu Lys Ser Phe Lys
 20 25 30
 Asp Thr Pro Leu Glu Gly Leu Glu Gln Leu Leu Pro Glu Leu Lys Val
 35 40 45
 Arg Thr Pro Thr Leu Gln Arg Ala Leu Leu Asn Leu Met Leu Val Val
 50 55 60
 Ser Gly Val Ala Ile Phe Val Asn Val Gly Met Val Val Leu Thr Asp
 65 70 75 80
 Leu Lys Val Ala Thr Ser Leu Leu Leu Leu Leu Phe Ala Ile Phe Met
 85 90 95
 Gly Leu Arg Ala Ser Lys Cys Arg Ala Ala Leu Xaa Ser Cys Thr Gly
 100 105 110
 Cys Ser Pro Ser Lys Asp Ser Trp Pro Arg Gly Gln Val Glu Ala Asp
 115 120 125
 Thr Gln Leu Val Ser Ala Cys Gln Asn Ala Cys Pro Val Ser Arg Leu
 130 135 140
 Ser Gln Pro Arg Gly Glu Leu Pro Phe Thr Asp Ser Ser Gln Gly Trp
 145 150 155 160
 His Arg Pro Gln Glu Cys Arg Leu Val
 165

<210> 1942

<211> 327

<212> PRT

<213> Homo sapiens

<400> 1942

Met Leu His Val Thr Arg Gly Val Trp Gly Ser Arg Val Arg Val Trp
 1 5 10 15
 Pro Leu Leu Pro Ala Leu Leu Gly Pro Pro Arg Ala Leu Ser Ser Leu
 20 25 30
 Ala Ala Lys Met Gly Glu Tyr Arg Lys Met Trp Asn Pro Arg Glu Pro
 35 40 45
 Arg Asp Trp Ala Gln Gln Tyr Arg Glu Arg Phe Ile Pro Phe Ser Lys
 50 55 60
 Glu Gln Leu Leu Arg Leu Leu Ile Gln Ala Leu Tyr Asp Pro Ile Asn
 65 70 75 80
 Pro Asp Arg Glu Thr Leu Asp Gln Pro Ser Leu Thr Asp Pro Gln Arg
 85 90 95
 Leu Ser Asn Glu Gln Glu Val Leu Arg Ala Leu Glu Pro Leu Leu Ala
 100 105 110
 Gln Ala Asn Phe Ser Pro Leu Ser Glu Asp Thr Leu Ala Tyr Ala Leu
 1256

115	120	125
Val Val His His Pro Gln Asp Glu Val Gln Val Thr Val Asn Leu Asp		
130	135	140
Gln Tyr Val Tyr Ile His Phe Trp Ala Leu Gly Gln Arg Val Gly Gln		
145	150	155
Met Pro Leu Lys Ser Ser Val Gly Ser Arg Arg Val Phe Phe Thr Lys		
	165	170
		175
Leu Pro Pro Ala Glu Arg Arg Tyr Phe Lys Arg Val Val Leu Ala Ala		
	180	185
		190
Arg Thr Lys Arg Gly His Leu Val Leu Lys Ser Phe Lys Asp Thr Pro		
	195	200
		205
Leu Glu Gly Leu Glu Gln Leu Leu Pro Glu Leu Lys Val Arg Thr Pro		
	210	215
		220
Thr Leu Gln Arg Ala Leu Leu Asn Leu Met Leu Val Val Ser Gly Val		
	225	230
		235
Ala Ile Phe Val Asn Val Gly Met Val Val Leu Thr Asp Leu Lys Val		
	245	250
		255
Ala Thr Ser Leu Leu Leu Leu Leu Phe Ala Ile Phe Met Gly Leu Arg		
	260	265
		270
Ala Ser Lys Cys Arg Ala Ala Leu Asn Ser Cys Thr Gly Cys Ser Pro		
	275	280
		285
Ser Lys Asp Ser Trp Pro Arg Gly Gln Val Glu Ala Asp Thr Gln Leu		
	290	295
		300
Val Leu Arg Leu Pro Lys Cys Val Ser Cys Leu Glu Ala Glu Ser Ala		
	305	310
		315
		320
Gln Arg Gly Ala Ala Phe Tyr		
	325	

<210> 1943

<211> 118

<212> PRT

<213> Homo sapiens

<400> 1943

Met Lys Asp Leu Trp Phe Leu Leu Leu Val Val Ala Ala Pro Thr Trp		
1	5	10
		15
Val Leu Ser Gln Val Arg Leu Gln Glu Ser Gly Pro Gly Leu Val Ser		
	20	25
		30
Pro Ser Gln Thr Leu Ser Leu Thr Cys Ser Val Ser Gly Ile Asn Ile		
	35	40
		45
Gly Gly Gly Lys Tyr Tyr Trp Ala Trp Val Arg Gln Arg Pro Gly Glu		
	50	55
		60

Gly Pro Glu Trp Val Gly Tyr Ile Ser Tyr Thr Gly Val Ala Asp Tyr
 65 70 75 80
 Asn Pro Ser Leu Arg Gly Arg Leu Thr Ile Ser Leu Gly Glu Ser Asn
 85 90 95
 Ser Phe Ser Leu Thr Leu Thr Ser Met Thr Ala Ala Asp Ala Val Val
 100 105 110
 Tyr Tyr Cys Ala Thr Asp
 115

<210> 1944

<211> 174

<212> PRT

<213> Homo sapiens

<400> 1944

Lys Gly Val Phe Tyr Phe Phe Ile Phe Tyr Leu Pro Leu Phe Ser Trp
 1 5 10 15
 Leu Cys Ser Arg Val Cys Val Phe Ala Cys Leu Leu Ser Cys Ser Phe
 20 25 30
 Phe Phe Trp Met Lys Thr Pro Ala Phe Pro Asp Ser Pro Pro Ser Ser
 35 40 45
 Val Leu Gln Phe Ser Glu Lys Ser Trp Asp Met Trp Glu Gly Ala Trp
 50 55 60
 Glu Leu Gly Ser Leu Arg Leu Pro Gly Arg Gln Phe Arg Leu Cys Arg
 65 70 75 80
 Lys Glu Gln Ser Pro Trp Glu Ala Leu Gly Glu Gly Gly Ala Ala Gly
 85 90 95
 Pro Ala Arg Met Val Leu Pro Ala Thr Gly Gly Leu Arg Val Val Ser
 100 105 110
 Ala Pro Cys Ile Ser Pro Ser Leu Leu Thr Phe Leu Leu Cys Phe Pro
 115 120 125
 Pro Ser Val Cys Gln Arg Gly Gly Thr Gly Asn Arg Thr Ala Val Ala
 130 135 140
 Ala Leu Ser Leu Leu Ser Thr Val Tyr Ser Gly Leu Ser Gly Asp Ser
 145 150 155 160
 Arg Glu Pro Gly His Leu Ala Ala Val Arg Pro Leu Asn Leu
 165 170

<210> 1945

<211> 162

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (115)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (143)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1945

Met	Ala	Ser	Ala	Leu	Ser	Tyr	Val	Ser	Lys	Phe	Lys	Ser	Phe	Val	Ile
1				5					10					15	

Leu	Phe	Val	Thr	Pro	Leu	Leu	Leu	Leu	Pro	Leu	Val	Ile	Leu	Met	Pro
			20					25					30		

Ala	Lys	Val	Cys	Val	Gln	Tyr	Met	Lys	Asp	Thr	Asn	Met	Leu	Phe	Leu
		35					40					45			

Gly	Gly	Leu	Ile	Val	Ala	Val	Ala	Val	Glu	Arg	Trp	Asn	Leu	His	Lys
	50					55					60				

Arg	Ile	Ala	Leu	Arg	Thr	Leu	Leu	Trp	Val	Gly	Ala	Lys	Pro	Ala	Arg
65					70					75					80

Leu	Met	Leu	Gly	Phe	Met	Gly	Val	Thr	Ala	Leu	Leu	Ser	Met	Trp	Ile
				85					90					95	

Ser	Asn	Thr	Ala	Thr	Thr	Ala	Met	Met	Val	Pro	Ile	Val	Glu	Ala	Ile
			100					105					110		

Leu	Gln	Xaa	Met	Glu	Ala	Thr	Ser	Ala	Ala	Thr	Glu	Ala	Gly	Leu	Glu
		115						120					125		

Leu	Val	Asp	Lys	Gly	Lys	Ala	Lys	Glu	Leu	Pro	Gly	Ser	Gln	Xaa	Ile
	130					135					140				

Phe	Glu	Gly	Pro	Thr	Leu	Gly	Gln	Gln	Glu	Asp	Gln	Arg	Ala	Glu	Glu
145					150					155					160

Val Val

<210> 1946

<211> 173

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (59)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (130)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1946

Glu Glu Pro Gln Asp His Thr His Ser Pro Tyr Pro Pro Gln Asp Tyr
1 5 10 15

Arg Thr Phe Trp His Thr Leu Tyr Arg Val Leu Gly Phe Thr Pro Gln
20 25 30

Asn Asp Pro Thr Met Ser Thr His His Gln Asn Pro Ala Asn Gly Pro
35 40 45

Pro Leu Pro Pro Ser Pro Asp Ala Glu Met Xaa Met Gly Ser Trp Arg
50 55 60

Val Gly Ser Glu Met Lys Gly Thr Pro Gln Trp Ala Ala Gly Pro Ile
65 70 75 80

Phe Pro Lys Pro Cys His Tyr Leu Cys Glu Gly Gly Gln Val Ala Glu
85 90 95

Gly Ser Gly Cys Arg Leu Leu Tyr Pro Leu Cys Leu Lys His Pro Pro
100 105 110

His Arg Ala Leu Val Phe Thr Arg Phe Val Leu Asp Ser Leu Asn Gly
115 120 125

Asn Xaa Ile Pro Trp Leu Arg Ala Lys Thr Thr Thr Tyr Gln Cys Pro
130 135 140

Cys Pro Phe Gln Leu Thr Leu Ser Ser Leu Arg Ser Ser Leu Ser Leu
145 150 155 160

Trp Lys Gly His Pro Ser Gln Gly Arg Asn Ala Trp Ser
165 170

<210> 1947

<211> 407

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (193)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (357)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1947

Met Ala Ser Ala Leu Ser Tyr Val Ser Lys Phe Lys Ser Phe Val Ile
1 5 10 15

Leu Phe Val Thr Pro Leu Leu Leu Leu Pro Leu Val Ile Leu Met Pro
20 25 30

Ala Lys Val Cys Val Gln Tyr Met Lys Asp Thr Asn Met Leu Phe Leu
 35 40 45
 Gly Gly Leu Ile Val Ala Val Ala Val Glu Arg Trp Asn Leu His Lys
 50 55 60
 Arg Ile Ala Leu Arg Thr Leu Leu Trp Val Gly Ala Lys Pro Ala Arg
 65 70 75 80
 Leu Met Leu Gly Phe Met Gly Val Thr Ala Leu Leu Ser Met Trp Ile
 85 90 95
 Ser Asn Thr Ala Thr Thr Ala Met Met Val Pro Ile Val Glu Ala Ile
 100 105 110
 Leu Gln Gln Met Glu Ala Thr Ser Ala Ala Thr Glu Ala Gly Leu Glu
 115 120 125
 Leu Val Asp Lys Gly Lys Ala Lys Glu Leu Pro Gly Ser Gln Val Ile
 130 135 140
 Phe Glu Gly Pro Thr Leu Gly Gln Gln Glu Asp Gln Glu Arg Lys Arg
 145 150 155 160
 Leu Cys Lys Ala Met Thr Leu Cys Ile Cys Tyr Ala Ala Ser Ile Gly
 165 170 175
 Gly Thr Ala Thr Leu Thr Gly Thr Gly Pro Asn Val Val Leu Leu Gly
 180 185 190
 Xaa Met Asn Glu Leu Phe Pro Asp Ser Lys Asp Leu Val Asn Phe Ala
 195 200 205
 Ser Trp Phe Ala Phe Ala Phe Pro Asn Met Leu Val Met Leu Leu Phe
 210 215 220
 Ala Trp Leu Trp Leu Gln Phe Val Tyr Met Arg Phe Lys Tyr Val Ser
 225 230 235 240
 Asp Ala Thr Val Ala Ile Phe Val Ala Thr Leu Leu Phe Ile Val Pro
 245 250 255
 Ser Gln Lys Pro Lys Phe Asn Phe Arg Ser Gln Thr Glu Glu Glu Arg
 260 265 270
 Lys Thr Pro Phe Tyr Pro Pro Pro Leu Leu Asp Trp Lys Val Thr Gln
 275 280 285
 Glu Lys Val Pro Trp Gly Ile Val Leu Leu Leu Gly Gly Gly Phe Ala
 290 295 300
 Leu Ala Lys Gly Ser Glu Ala Ser Gly Leu Ser Val Trp Met Gly Lys
 305 310 315 320
 Gln Met Glu Pro Leu His Ala Val Pro Pro Ala Ala Ile Thr Leu Ile
 325 330 335
 Leu Ser Leu Leu Val Ala Val Phe Thr Glu Cys Thr Ser Asn Val Ala
 340 345 350

Thr Thr Thr Leu Xaa Leu Pro Ile Phe Ala Ser Met Val Lys Thr Gly
 355 360 365

Val Ile Met Asn Ile Ile Gly Val Phe Cys Val Phe Leu Ala Val Asn
 370 375 380

Thr Trp Gly Arg Ala Ile Phe Asp Leu Asp His Phe Pro Asp Trp Ala
 385 390 395 400

Asn Val Thr His Ile Glu Thr
 405

<210> 1948

<211> 162

<212> PRT

<213> Homo sapiens

<400> 1948

Met Ala Ser Ala Leu Ser Tyr Val Ser Lys Phe Lys Ser Phe Val Ile
 1 5 10 15

Leu Phe Val Thr Pro Leu Leu Leu Leu Pro Leu Val Ile Leu Met Pro
 20 25 30

Ala Lys Val Cys Val Gln Tyr Met Lys Asp Thr Asn Met Leu Phe Leu
 35 40 45

Gly Gly Leu Ile Val Ala Val Ala Val Glu Arg Trp Asn Leu His Lys
 50 55 60

Arg Ile Ala Leu Arg Thr Leu Leu Trp Val Gly Ala Lys Pro Ala Arg
 65 70 75 80

Leu Met Leu Gly Phe Met Gly Val Thr Ala Leu Leu Ser Met Trp Ile
 85 90 95

Ser Asn Thr Ala Thr Thr Ala Met Met Val Pro Ile Val Glu Ala Ile
 100 105 110

Leu Gln Gln Met Glu Ala Thr Ser Ala Ala Thr Glu Ala Gly Leu Glu
 115 120 125

Leu Val Asp Lys Gly Lys Ala Lys Glu Leu Pro Gly Ser Gln Val Ile
 130 135 140

Phe Glu Gly Pro Thr Leu Gly Gln Gln Glu Asp Gln Glu Arg Lys Arg
 145 150 155 160

Leu Cys

<210> 1949

<211> 377

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (327)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1949

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Met Pro Ala Lys Val Cys Val Gln Tyr Met Lys Asp Thr Asn Met Leu
 1           5           10           15

Phe Leu Gly Gly Leu Ile Val Ala Val Ala Val Glu Arg Trp Asn Leu
          20           25           30

His Lys Arg Ile Ala Leu Arg Thr Leu Leu Trp Val Gly Ala Lys Pro
      35           40           45

Ala Arg Leu Met Leu Gly Phe Met Gly Val Thr Ala Leu Leu Ser Met
 50           55           60

Trp Ile Ser Asn Thr Ala Thr Thr Ala Met Met Val Pro Ile Val Glu
 65           70           75           80

Ala Ile Leu Gln Gln Met Glu Ala Thr Ser Ala Ala Thr Glu Ala Gly
          85           90           95

Leu Glu Leu Val Asp Lys Gly Lys Ala Lys Glu Leu Pro Gly Ser Gln
      100           105           110

Val Ile Phe Glu Gly Pro Thr Leu Gly Gln Gln Glu Asp Gln Glu Arg
      115           120           125

Lys Arg Leu Cys Lys Ala Met Thr Leu Cys Ile Cys Tyr Ala Ala Ser
      130           135           140

Ile Gly Gly Thr Ala Thr Leu Thr Gly Thr Gly Pro Asn Val Val Leu
145           150           155           160

Leu Gly Gln Met Asn Glu Leu Phe Pro Asp Ser Lys Asp Leu Val Asn
          165           170           175

Phe Ala Ser Trp Phe Ala Phe Ala Phe Pro Asn Met Leu Val Met Leu
      180           185           190

Leu Phe Ala Trp Leu Trp Leu Gln Phe Val Tyr Met Arg Phe Lys Tyr
      195           200           205

Val Ser Asp Ala Thr Val Ala Ile Phe Val Ala Thr Leu Leu Phe Ile
      210           215           220

Val Pro Ser Gln Lys Pro Lys Phe Asn Phe Arg Ser Gln Thr Glu Glu
225           230           235           240

Glu Arg Lys Thr Pro Phe Tyr Pro Pro Pro Leu Leu Asp Trp Lys Val
          245           250           255

Thr Gln Glu Lys Val Pro Trp Gly Ile Val Leu Leu Leu Gly Gly Gly
      260           265           270

Phe Ala Leu Ala Lys Gly Ser Glu Ala Ser Gly Leu Ser Val Trp Met
      275           280           285

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Gly Lys Gln Met Glu Pro Leu His Ala Val Pro Pro Ala Ala Ile Thr
 290 295 300
 Leu Ile Leu Ser Leu Leu Val Ala Val Phe Thr Glu Cys Thr Ser Asn
 305 310 315 320
 Val Ala Thr Thr Thr Leu Xaa Leu Pro Ile Phe Ala Ser Met Val Lys
 325 330 335
 Thr Gly Val Ile Met Asn Ile Ile Gly Val Phe Cys Val Phe Leu Ala
 340 345 350
 Val Asn Thr Trp Gly Arg Ala Ile Phe Asp Leu Asp His Phe Pro Asp
 355 360 365
 Trp Ala Asn Val Thr His Ile Glu Thr
 370 375

<210> 1950

<211> 104

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (63)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (74)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (103)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1950

Met Ser Leu Leu Leu Leu Ser Val Leu Met Ser Pro Gly Ala Arg
 1 5 10 15

Pro Ser Asp Pro Val Glu Val Ile Ala Ser Gly Pro Thr Val Ala Ser
 20 25 30

Ser His Asn Val Gln Asp Cys Leu His Ile Leu Asn Arg Tyr Gly Leu
 35 40 45

Arg Ala Ala Leu Pro Arg Ser Val Lys Thr Val Leu Ser Arg Xaa Asp
 50 55 60

Ser Asp Pro His Gly Pro His Thr Cys Xaa His Val Leu Asn Val Ile
 65 70 75 80

Ile Gly Ser Asn Val Leu Ala Leu Ala Glu Ala Gln Arg Gln Ala Glu
 85 90 95

Ala Leu Gly Tyr Lys Leu Xaa Cys

100

<210> 1951

<211> 81

<212> PRT

<213> Homo sapiens

<400> 1951

Gln Val Pro Met Ser Trp Thr Pro Thr Ser Cys Ser Cys Gly Leu Gly
 1 5 10 15

Asp Gly Ile Gly His Ile Leu Gly Val Gln Arg Arg Pro Thr Arg Ala
 20 25 30

Arg Ser Asp Gly Arg Ala Ser Gln Thr Gly Arg Trp Gly Leu Pro Pro
 35 40 45

Thr Pro Glu Asp Glu Asp Lys Pro Leu Gly Gln Phe Ser Val Pro Val
 50 55 60

Leu Leu Pro Trp Ala Ala Ser Leu Leu Ser Pro Ser Pro Cys Phe Phe
 65 70 75 80

Leu

<210> 1952

<211> 295

<212> PRT

<213> Homo sapiens

<400> 1952

Met Ser Leu Leu Leu Leu Leu Ser Val Leu Met Ser Pro Gly Ala Arg
 1 5 10 15

Pro Ser Asp Pro Val Glu Val Ile Ala Ser Gly Pro Thr Val Ala Ser
 20 25 30

Ser His Asn Val Gln Asp Cys Leu His Ile Leu Asn Arg Tyr Gly Leu
 35 40 45

Arg Ala Ala Leu Pro Arg Ser Val Lys Thr Val Leu Ser Arg Ala Asp
 50 55 60

Ser Asp Pro His Gly Pro His Thr Cys Gly His Val Leu Asn Val Ile
 65 70 75 80

Ile Gly Ser Asn Val Leu Ala Leu Ala Glu Ala Gln Arg Gln Ala Glu
 85 90 95

Ala Leu Gly Tyr Gln Ala Val Val Leu Ser Ala Ala Met Gln Gly Asp
 100 105 110

Val Lys Ser Met Ala Gln Phe Tyr Gly Leu Leu Ala His Val Ala Arg
 115 120 125

1265

Thr Arg Leu Thr Pro Ser Met Ala Gly Ala Ser Val Glu Glu Asp Ala
 130 135 140
 Gln Leu His Glu Leu Ala Ala Glu Leu Gln Ile Pro Asp Leu Gln Leu
 145 150 155 160
 Glu Glu Ala Leu Glu Thr Met Ala Trp Gly Arg Gly Pro Val Cys Leu
 165 170 175
 Leu Ala Gly Gly Glu Pro Thr Val Gln Leu Gln Gly Ser Gly Arg Gly
 180 185 190
 Gly Arg Asn Gln Glu Leu Ala Leu Arg Val Gly Ala Glu Leu Arg Arg
 195 200 205
 Trp Pro Leu Gly Pro Ile Asp Val Leu Phe Leu Ser Gly Gly Thr Asp
 210 215 220
 Gly Gln Asp Gly Pro Thr Glu Ala Ala Gly Ala Trp Val Thr Pro Glu
 225 230 235 240
 Leu Ala Ser Gln Ala Ala Ala Glu Gly Leu Asp Ile Ala Thr Phe Leu
 245 250 255
 Ala His Asn Asp Ser His Thr Phe Phe Cys Cys Leu Gln Gly Gly Ala
 260 265 270
 His Leu Leu His Thr Gly Met Thr Gly Thr Asn Val Met Asp Thr His
 275 280 285
 Leu Leu Phe Leu Arg Pro Arg
 290 295

<210> 1953

<211> 116

<212> PRT

<213> Homo sapiens

<400> 1953

Met Trp Trp Ala Leu Cys Ser Met Leu Pro Leu Leu Gly Cys Ala Cys
 1 5 10 15
 Ser Ser Gly Cys Trp Gly Ser Gly Pro Thr Pro Leu Leu Ala Glu Pro
 20 25 30
 Thr Phe Leu Cys Val Ser Ser Arg Pro His Asn Pro Leu Ser Phe Leu
 35 40 45
 Ser Val Leu Pro Cys Ser Arg Gly Pro Gly Pro Ser Gly Leu Gln Gly
 50 55 60
 Asp Gly Ala Gly Leu Pro Ala His Leu Gly Pro Leu Ser Cys Ile Cys
 65 70 75 80
 Leu Pro Ser Leu Leu Cys Asp Leu Gly Glu Arg Gln Cys Pro Leu Trp
 85 90 95
 Ala Val Arg Ser Thr Gln Cys Leu Ile Ala Gly Lys Lys Val Leu Gln
 1266

100 105 110

Arg Leu Cys Pro
115

<210> 1954
<211> 116
<212> PRT
<213> Homo sapiens

<400> 1954
Met Trp Trp Ala Leu Cys Ser Met Leu Pro Leu Leu Gly Cys Ala Cys
1 5 10 15
Ser Ser Gly Cys Trp Gly Ser Gly Pro Thr Pro Leu Leu Ala Glu Pro
20 25 30
Thr Phe Leu Cys Val Ser Ser Arg Pro His Asn Pro Leu Ser Phe Leu
35 40 45
Ser Val Leu Pro Cys Ser Arg Gly Pro Gly Pro Ser Gly Leu Gln Gly
50 55 60
Asp Gly Ala Gly Leu Pro Ala His Leu Gly Pro Leu Ser Cys Ile Cys
65 70 75 80
Leu Pro Ser Leu Leu Cys Asp Leu Gly Glu Arg Gln Cys Pro Leu Trp
85 90 95
Ala Val Arg Ser Thr Gln Cys Leu Ile Ala Gly Lys Lys Val Leu Gln
100 105 110
Arg Leu Cys Pro
115

<210> 1955
<211> 116
<212> PRT
<213> Homo sapiens

<400> 1955
Met Trp Trp Ala Leu Cys Ser Met Leu Pro Leu Leu Gly Cys Ala Cys
1 5 10 15
Ser Ser Gly Cys Trp Gly Ser Gly Pro Thr Pro Leu Leu Ala Glu Pro
20 25 30
Thr Phe Leu Cys Val Ser Ser Arg Pro His Asn Pro Leu Ser Phe Leu
35 40 45
Ser Val Leu Pro Cys Ser Arg Gly Pro Gly Pro Ser Gly Leu Gln Gly
50 55 60
Asp Gly Ala Gly Leu Pro Ala His Leu Gly Pro Leu Ser Cys Ile Cys
65 70 75 80

Leu Pro Ser Leu Leu Cys Asp Leu Gly Glu Arg Gln Cys Pro Leu Trp
 85 90 95

Ala Val Arg Ser Thr Gln Cys Leu Ile Ala Gly Lys Lys Val Leu Gln
 100 105 110

Arg Leu Cys Pro
 115

<210> 1956

<211> 82

<212> PRT

<213> Homo sapiens

<400> 1956

Met Ala Ile Pro Pro Phe Ile Met Asn Thr Leu Glu Lys Lys Ala Phe
 1 5 10 15

Leu Lys Arg Phe Pro Trp Met Ser Ala Pro Ile Gln Val Gly Leu Val
 20 25 30

Gly Phe Cys Leu Val Phe Ala Thr Pro Leu Cys Cys Ala Leu Phe Pro
 35 40 45

Gln Lys Ser Ser Met Ser Val Thr Ser Leu Glu Ala Glu Leu Gln Ala
 50 55 60

Lys Ile Gln Glu Ser His Pro Glu Leu Arg Arg Val Tyr Phe Asn Lys
 65 70 75 80

Gly Leu

<210> 1957

<211> 82

<212> PRT

<213> Homo sapiens

<400> 1957

Met Ala Ile Pro Pro Phe Ile Met Asn Thr Leu Glu Lys Lys Ala Phe
 1 5 10 15

Leu Lys Arg Phe Pro Trp Met Ser Ala Pro Ile Gln Val Gly Leu Val
 20 25 30

Gly Phe Cys Leu Val Phe Ala Thr Pro Leu Cys Cys Ala Leu Phe Pro
 35 40 45

Gln Lys Ser Ser Met Ser Val Thr Ser Leu Glu Ala Glu Leu Gln Ala
 50 55 60

Lys Ile Gln Glu Ser His Pro Glu Leu Arg Arg Val Tyr Phe Asn Lys
 65 70 75 80

Gly Leu

<210> 1958
<211> 18
<212> PRT
<213> Homo sapiens

<400> 1958
Met Arg Phe Ser Glu Ala Trp Thr Ser Pro Trp Cys Met Thr Leu Leu
1 5 10 15

Thr Cys

<210> 1959
<211> 18
<212> PRT
<213> Homo sapiens

<400> 1959
Met Arg Phe Ser Glu Ala Trp Thr Ser Pro Trp Cys Met Thr Leu Leu
1 5 10 15

Thr Cys

<210> 1960
<211> 43
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (8)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1960
Met Ser Met Ala Met Gly Ser Xaa Thr Leu Leu Leu Gly Trp Gly Pro
1 5 10 15

Gly Pro Gly Trp Asp Cys Gly Val Met Arg Val Val Leu Cys Trp Leu
20 25 30

Pro Gly Gly Asn Cys Gln Gly Glu Ser Ser Thr
35 40

<210> 1961
<211> 79
<212> PRT
<213> Homo sapiens

<400> 1961
Ala Glu His His Gln Leu Ser Gln Val Leu Val Thr Cys Leu Gly Thr

1 5 10 15
 Cys Met Glu Pro Glu Pro Leu Thr Pro His Pro Arg His Tyr Leu Gly
 20 25 30
 Asp Ala Gln Asp Lys Cys Ser Asn Asp Cys Met His Cys Leu Ser Ile
 35 40 45
 Gly Gln His Glu Leu Pro Ser Tyr Ser Cys Gln Pro Gly Arg Lys Arg
 50 55 60
 Leu Leu Pro His His Ser Gln Pro Ser Phe Pro Leu Ala Ser Thr
 65 70 75

<210> 1962

<211> 305

<212> PRT

<213> Homo sapiens

<400> 1962

Met Pro Ala Asn Phe Thr Glu Gly Ser Phe Asp Ser Ser Gly Thr Gly
 1 5 10 15
 Gln Thr Leu Asp Ser Ser Pro Val Ala Cys Thr Glu Thr Val Thr Phe
 20 25 30
 Thr Glu Val Val Glu Gly Lys Glu Trp Gly Ser Phe Tyr Tyr Ser Phe
 35 40 45
 Lys Thr Glu Gln Leu Ile Thr Leu Trp Val Leu Phe Val Phe Thr Ile
 50 55 60
 Val Gly Asn Ser Val Val Leu Phe Ser Thr Trp Arg Arg Lys Lys Lys
 65 70 75 80
 Ser Arg Met Thr Phe Phe Val Thr Gln Leu Ala Ile Thr Glu Lys Gln
 85 90 95
 Ala Arg Val Leu Ile Val Ile Ala Trp Ser Leu Ser Phe Leu Phe Ser
 100 105 110
 Ile Pro Thr Leu Ile Ile Phe Gly Lys Arg Thr Leu Ser Asn Gly Glu
 115 120 125
 Val Gln Cys Trp Ala Leu Trp Pro Asp Asp Ser Tyr Trp Thr Pro Tyr
 130 135 140
 Met Thr Ile Val Ala Phe Leu Val Tyr Phe Ile Pro Leu Thr Ile Ile
 145 150 155 160
 Ser Ile Met Tyr Gly Ile Val Ile Arg Thr Ile Trp Ile Lys Ser Lys
 165 170 175
 Thr Tyr Glu Thr Val Ile Ser Asn Cys Ser Asp Gly Lys Leu Cys Ser
 180 185 190
 Ser Tyr Asn Arg Gly Leu Ile Ser Lys Ala Lys Ile Lys Ala Ile Lys
 195 200 205

1270

Tyr Ser Ile Ile Ile Ile Leu Ala Phe Ile Cys Cys Trp Ser Pro Tyr
 210 215 220
 Phe Leu Phe Asp Ile Leu Asp Asn Phe Asn Leu Leu Pro Asp Thr Gln
 225 230 235 240
 Glu Arg Phe Tyr Ala Ser Val Ile Ile Gln Asn Leu Pro Ala Leu Asn
 245 250 255
 Ser Ala Ile Asn Pro Leu Ile Tyr Cys Val Phe Ser Ser Ser Ile Ser
 260 265 270
 Phe Pro Cys Arg Glu Gln Arg Ser Gln Asp Ser Arg Met Thr Phe Arg
 275 280 285
 Glu Arg Thr Glu Arg His Glu Met Gln Ile Leu Ser Lys Pro Glu Phe
 290 295 300
 Ile
 305

<210> 1963
 <211> 43
 <212> PRT
 <213> Homo sapiens

<400> 1963
 Met Ser Met Ala Met Gly Ser Ser Thr Leu Leu Leu Gly Trp Gly Pro
 1 5 10 15
 Gly Pro Gly Trp Asp Cys Gly Val Met Arg Val Val Leu Cys Trp Leu
 20 25 30
 Pro Gly Gly Asn Cys Gln Gly Glu Ser Ser Thr
 35 40

<210> 1964
 <211> 161
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (104)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1964
 Met Pro Thr Thr Leu Pro Ser Asp Leu Met Leu Leu Trp Leu Gly Leu
 1 5 10 15
 Pro Ser Leu Pro Ser Pro Val Glu Glu Glu Gly Arg Leu Val Lys Gly
 20 25 30
 Leu Arg Leu Thr Leu Ala Ala Pro Ala Ser Glu Val Leu Pro Asp Trp
 35 40 45

Glu Asp Pro Pro Ser His Pro Thr Ala Trp Ala Gln Pro Arg Thr His
 50 55 60
 Gln Pro Asp Thr Pro Asn Ser Ile Lys Ser Gly Ile Tyr Ser Pro Cys
 65 70 75 80
 Gly Gly Ala Val Leu Arg Gly Ala Gly Ala Ile Val Leu Arg Lys Glu
 85 90 95
 Val Cys Pro Ser Val Arg Leu Xaa Gly Arg Pro Gly Pro Lys Trp Gly
 100 105 110
 Arg Lys Arg Gly Thr Ala Arg Val Lys Ile Pro Ala Tyr Ser Gly Trp
 115 120 125
 Glu Tyr Val Gln Gly Gly Gly Ala Gln Ala Gly Val Gly Ala Gly Gly
 130 135 140
 Pro Ala Ala Ala Ala Pro Thr Arg Gly Pro Pro His Leu Gly Pro Tyr
 145 150 155 160

Leu

<210> 1965

<211> 161

<212> PRT

<213> Homo sapiens

<400> 1965

Met Pro Thr Thr Leu Pro Ser Asp Leu Met Leu Leu Trp Leu Gly Leu
 1 5 10 15
 Pro Ser Leu Pro Ser Pro Val Glu Glu Glu Gly Arg Leu Val Lys Gly
 20 25 30
 Leu Arg Leu Thr Leu Ala Ala Pro Ala Ser Glu Val Leu Pro Asp Trp
 35 40 45
 Glu Asp Pro Pro Ser His Pro Thr Ala Trp Ala Gln Pro Arg Thr His
 50 55 60
 Gln Pro Asp Thr Pro Asn Ser Ile Lys Ser Gly Ile Tyr Ser Pro Cys
 65 70 75 80
 Gly Gly Ala Val Leu Arg Gly Ala Gly Ala Ile Val Leu Arg Lys Glu
 85 90 95
 Val Cys Pro Ser Val Arg Leu Ser Gly Arg Pro Gly Pro Lys Trp Gly
 100 105 110
 Arg Lys Arg Gly Thr Ala Arg Val Lys Ile Pro Ala Tyr Ser Gly Trp
 115 120 125
 Glu Tyr Val Gln Gly Gly Gly Ala Gln Ala Gly Val Gly Ala Gly Gly
 130 135 140

Pro Ala Ala Ala Ala Pro Thr Arg Gly Pro Pro His Leu Gly Pro Tyr
 145 150 155 160

Leu

<210> 1966

<211> 92

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1966

Met Gly Pro Phe Ala Pro Thr Leu Leu Met Leu Leu Pro Pro Leu Leu
 1 5 10 15

Met Leu Val Leu Tyr Gly Cys Trp Gln Ala Arg Gly Trp Ala Gly His
 20 25 30

Gln Tyr Glu His His Arg Gly Pro Gly Glu Gln Xaa Ala Ala Tyr Phe
 35 40 45

Gln Ala Met Arg Phe Asn Ala Asn Met Ser Phe His Ala Gln Met Val
 50 55 60

Ile Asn Glu Gly Glu Ala Phe Arg Glu Gly Gln Arg Thr Ile Pro Ala
 65 70 75 80

Val Glu Arg Pro Gly Asn Ala Leu Arg Gln Arg Ser
 85 90

<210> 1967

<211> 92

<212> PRT

<213> Homo sapiens

<400> 1967

Met Gly Pro Phe Ala Pro Thr Leu Leu Met Leu Leu Pro Pro Leu Leu
 1 5 10 15

Met Leu Val Leu Tyr Gly Cys Trp Gln Ala Arg Gly Trp Ala Gly His
 20 25 30

Gln Tyr Glu His His Arg Gly Pro Gly Glu Gln Ser Ala Ala Tyr Phe
 35 40 45

Gln Ala Met Arg Phe Asn Ala Asn Met Ser Phe His Ala Gln Met Val
 50 55 60

Ile Asn Glu Gly Glu Ala Phe Arg Glu Gly Gln Arg Thr Ile Pro Ala
 65 70 75 80

Val Glu Arg Pro Gly Asn Ala Leu Arg Gln Arg Ser
 85 90

<210> 1968

<211> 124

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1968

Met Trp Pro Arg Leu Ala Phe Cys Cys Trp Gly Leu Ala Leu Val Ser
 1 5 10 15

Gly Trp Ala Xaa Phe Gln Gln Met Ser Pro Ser Arg Asn Phe Ser Phe
 20 25 30

Arg Leu Phe Pro Glu Thr Ala Pro Gly Ala Pro Gly Ser Ile Pro Ala
 35 40 45

Pro Pro Ala Pro Gly Asp Glu Ala Ala Gly Ser Arg Val Glu Arg Leu
 50 55 60

Gly Gln Ala Phe Arg Arg Arg Val Arg Leu Leu Arg Glu Leu Asn Glu
 65 70 75 80

Arg Leu Glu Leu Ala Ser Trp Trp Met Ile Arg Pro Ala Trp Ala Lys
 85 90 95

Ser Thr Ser Ala Ala Ser Ser Cys Ser Ser Ala Ser Cys Cys Pro Thr
 100 105 110

Phe Pro Trp Trp Pro Arg Ala Pro Arg Gly His Ser
 115 120

<210> 1969

<211> 230

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (79)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (165)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1969

Met Trp Pro Arg Leu Ala Phe Cys Cys Trp Gly Leu Ala Leu Val Ser
1 5 10 15

Gly Trp Ala Xaa Phe Gln Gln Met Ser Pro Ser Arg Asn Phe Ser Phe
20 25 30

Arg Leu Phe Pro Glu Thr Ala Pro Gly Ala Pro Gly Ser Ile Pro Ala
35 40 45

Pro Pro Ala Pro Gly Asp Glu Ala Ala Gly Ser Arg Val Glu Arg Leu
50 55 60

Gly Gln Ala Phe Arg Arg Arg Val Arg Leu Leu Arg Glu Leu Xaa Glu
65 70 75 80

Arg Leu Glu Leu Val Phe Leu Val Asp Asp Ser Ser Ser Val Gly Glu
85 90 95

Val Asn Phe Arg Ser Glu Leu Met Phe Val Arg Lys Leu Leu Ser Asp
100 105 110

Phe Pro Val Val Pro Thr Ala Thr Arg Val Ala Ile Val Thr Phe Ser
115 120 125

Ser Lys Asn Tyr Val Val Pro Arg Val Asp Tyr Ile Ser Thr Arg Arg
130 135 140

Ala Arg Gln His Lys Cys Ala Leu Leu Leu Gln Glu Ile Pro Ala Ile
145 150 155 160

Ser Tyr Arg Gly Xaa Gly Thr Tyr Thr Lys Gly Ala Phe Gln Gln Ala
165 170 175

Ala Gln Ile Leu Leu His Ala Arg Glu Asn Ser Thr Lys Val Val Phe
180 185 190

Leu Ile Thr Asp Gly Tyr Ser Lys Gly Glu Thr Leu Ala Gln Leu Gln
195 200 205

Arg His Cys Glu Ile Gln Glu Trp Arg Ser Ser Leu Leu Ala Tyr Gly
210 215 220

Lys Gly Thr Phe Glu Ser
225 230

<210> 1970

<211> 89

<212> PRT

<213> Homo sapiens

<400> 1970

Met Trp Pro Arg Leu Ala Phe Cys Cys Trp Gly Leu Ala Leu Val Ser
1 5 10 15

Gly Trp Ala Thr Phe Gln Gln Met Ser Pro Ser Arg Asn Phe Ser Phe

1275

[illegible]

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<210> 1971
<211> 99
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (6)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (60)
<223> Xaa equals any of the naturally occurring L-amino acids
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<400> 1971
Met His Val Lys Trp Xaa Leu Ile Met Phe Leu Ile Cys Ile Ser Leu
  1          5          10          15

Glu Ser Asn Val Asn Gly Tyr Leu Phe Met Cys Leu Leu Phe Gly Tyr
      20          25          30

Leu Leu Trp Arg Asn Val Tyr Pro Asn Leu Leu Pro Ile Leu Asn Phe
      35          40          45

Asn Ser Cys Leu Leu Asp Leu Glu Leu Gln Glu Xaa Phe Val Tyr Ser
      50          55          60

Lys Tyr Gln Thr Phe Asn Lys Tyr Met Ile Cys Lys Cys Phe Phe Ser
      65          70          75          80

His Ala Val Cys Tyr Ser Phe Thr Phe Leu Ile Val Phe Phe Glu Ala
      85          90          95

Gln Thr Phe

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<210> 1972
<211> 99
<212> PRT
<213> Homo sapiens
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<400> 1972

Met His Val Lys Trp Tyr Leu Ile Met Phe Leu Ile Cys Ile Ser Leu
 1 5 10 15

Glu Ser Asn Val Asn Gly Tyr Leu Phe Met Cys Leu Leu Phe Gly Tyr
 20 25 30

Leu Leu Trp Arg Asn Val Tyr Pro Asn Leu Leu Pro Ile Leu Asn Phe
 35 40 45

Asn Ser Cys Leu Leu Asp Leu Glu Leu Gln Glu Phe Phe Val Tyr Ser
 50 55 60

Lys Tyr Gln Thr Phe Asn Lys Tyr Met Ile Cys Lys Cys Phe Phe Ser
 65 70 75 80

His Ala Val Cys Tyr Ser Phe Thr Phe Leu Ile Val Phe Phe Glu Ala
 85 90 95

Gln Thr Phe

<210> 1973

<211> 153

<212> PRT

<213> Homo sapiens

<400> 1973

Met His Thr His Thr Leu Ser Leu Val Ser Leu Ser Leu Ser His Ser
 1 5 10 15

Phe Leu Leu Ser Ser Gln Val Thr Cys Thr Leu Gly Phe Leu Val Glu
 20 25 30

Ala His Leu Pro Pro Leu Arg Gly Val Pro Asp Cys Ile His His Asn
 35 40 45

Pro Lys Thr Arg Val Gly Gly Asn Trp Arg Glu Gln Asn Thr Asp Leu
 50 55 60

Ile Leu Val Ser Leu Leu Glu Thr Ser Ser Pro Lys Ala Arg Ser Leu
 65 70 75 80

Lys Thr Asn Leu Leu Lys Thr Cys Leu Leu Lys Val Asn Asp Leu Met
 85 90 95

Thr Asn Leu Pro Lys Ala Gln Phe Leu Phe Trp Cys Val Tyr Ile His
 100 105 110

Leu Gly Val Leu Phe Phe Phe Val Met Leu Trp Ile Phe Gln Gly Phe
 115 120 125

Ile Ser Ile His Pro Arg Val Leu Leu Ser Tyr Tyr Gln Gln His Lys
 130 135 140

Phe Ile Lys Phe Ala Ala Leu Cys Lys
 145 150

<210> 1974

<211> 153

<212> PRT

<213> Homo sapiens

<400> 1974

Met His Thr His Thr Leu Ser Leu Val Ser Leu Ser Leu Ser His Ser
 1 5 10 15

Phe Leu Leu Ser Ser Gln Val Thr Cys Thr Leu Gly Phe Leu Val Glu
 20 25 30

Ala His Leu Pro Pro Leu Arg Gly Val Pro Asp Cys Ile His His Asn
 35 40 45

Pro Lys Thr Arg Val Gly Gly Asn Trp Arg Glu Gln Asn Thr Asp Leu
 50 55 60

Ile Leu Val Ser Leu Leu Glu Thr Ser Ser Pro Lys Ala Arg Ser Leu
 65 70 75 80

Lys Thr Asn Leu Leu Lys Thr Cys Leu Leu Lys Val Asn Asp Leu Met
 85 90 95

Thr Asn Leu Pro Lys Ala Gln Phe Leu Phe Trp Cys Val Tyr Ile His
 100 105 110

Leu Gly Val Leu Phe Phe Phe Val Met Leu Trp Ile Phe Gln Gly Phe
 115 120 125

Ile Ser Ile His Pro Arg Val Leu Leu Ser Tyr Tyr Gln Gln His Lys
 130 135 140

Phe Ile Lys Phe Ala Ala Leu Cys Lys
 145 150

<210> 1975

<211> 129

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (99)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (106)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (121)

<223> Xaa equals any of the naturally occurring L-amino acids.

<220>

<221> SITE

<222> (123)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (127)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1975

Met Gln Ala Gly Lys Gly Leu Ala Gln Val Trp Gly Val Ala Thr Phe
 1 5 10 15

Val Gln Leu Cys Ala His Thr Val Phe Leu Ser Met Tyr Leu Cys Met
 20 25 30

His Ile Cys Phe Ala Ala Ile Ser Ser Lys Val Arg Val Arg Val Asn
 35 40 45

Ala Pro Phe Cys Val Ser Val Pro Leu Lys Val His Ala Pro Leu Ser
 50 55 60

Leu Gly Ile Lys Val Gly Leu Gln Gly Gln Lys His Gly Arg Ala Thr
 65 70 75 80

Gly Glu Ala Gly Met Pro Gln Gly Glu Met Leu Gly Lys Gln Glu Pro
 85 90 95

Gln Thr Xaa Ser Ser Pro Lys Pro Thr Xaa Arg Arg Glu Val Ser Arg
 100 105 110

Asn Glu Leu Asn Pro Val Ile Pro Xaa Ala Xaa Asn Pro Phe Xaa Lys
 115 120 125

Lys

<210> 1976

<211> 467

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (151)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (160)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1976

Leu Gly Pro Ala Gly Leu Arg Arg Arg Thr Lys Arg Arg Lys Arg Gly
 1 5 10 15

Asp Asn Ser Thr Asp Thr Thr Gln Gly Asp Pro Leu Ser Ile His His

20					25					30					
Tyr	Phe	His	Gly	Tyr	Leu	Ala	Gly	Phe	Ser	Val	Arg	Ser	Gly	Arg	Leu
		35					40					45			
Glu	Ser	Arg	Glu	Val	Ile	Glu	Cys	Leu	Tyr	Ala	Cys	Arg	Glu	Gly	Leu
		50					55					60			
Asp	Tyr	Arg	Asp	Phe	Glu	Ser	Leu	Gly	Lys	Gly	Met	Lys	Val	His	Val
		65					70					75			80
Asn	Pro	Ser	Gln	Ser	Leu	Leu	Thr	Leu	Glu	Gly	Asp	Asp	Val	Glu	Thr
				85					90					95	
Phe	Asn	His	Ala	Leu	Gln	His	Val	Ala	Tyr	Met	Asn	Thr	Leu	Arg	Phe
			100					105						110	
Ala	Thr	Pro	Gly	Val	Arg	Pro	Leu	Arg	Leu	Thr	Thr	Ala	Val	Lys	Cys
			115				120						125		
Phe	Ser	Glu	Glu	Ser	Cys	Val	Ser	Ile	Pro	Glu	Val	Glu	Gly	Tyr	Val
		130					135					140			
Val	Val	Leu	Gln	Pro	Asp	Xaa	Pro	Gln	Ile	Leu	Leu	Ser	Gly	Thr	Xaa
		145					150					155			160
His	Phe	Ala	Arg	Pro	Ala	Val	Asp	Phe	Glu	Gly	Thr	Asn	Gly	Val	Pro
				165					170					175	
Leu	Phe	Pro	Asp	Leu	Gln	Ile	Thr	Cys	Ser	Ile	Ser	His	Gln	Val	Glu
			180					185					190		
Ala	Lys	Lys	Asp	Glu	Ser	Trp	Gln	Gly	Thr	Val	Thr	Asp	Thr	Arg	Met
			195				200					205			
Ser	Asp	Glu	Ile	Val	His	Asn	Leu	Asp	Gly	Cys	Glu	Ile	Ser	Leu	Val
		210					215					220			
Gly	Asp	Asp	Leu	Asp	Pro	Glu	Arg	Glu	Ser	Leu	Leu	Leu	Asp	Thr	Thr
		225					230					235			240
Ser	Leu	Gln	Gln	Arg	Gly	Leu	Glu	Leu	Thr	Asn	Thr	Ser	Ala	Tyr	Leu
				245					250					255	
Thr	Ile	Ala	Gly	Val	Glu	Ser	Ile	Thr	Val	Tyr	Glu	Glu	Ile	Leu	Arg
			260					265						270	
Gln	Ala	Arg	Tyr	Arg	Leu	Arg	His	Gly	Ala	Ala	Leu	Tyr	Thr	Arg	Lys
			275				280					285			
Phe	Arg	Leu	Ser	Cys	Ser	Glu	Met	Asn	Gly	Arg	Tyr	Ser	Ser	Asn	Glu
		290					295					300			
Phe	Ile	Val	Glu	Val	Asn	Val	Leu	His	Ser	Met	Asn	Arg	Val	Ala	His
		305					310					315			320
Pro	Ser	His	Val	Leu	Ser	Ser	Gln	Gln	Phe	Leu	His	Arg	Gly	His	Gln
				325					330					335	
Pro	Pro	Pro	Glu	Met	Ala	Gly	His	Ser	Leu	Ala	Ser	Ser	His	Arg	Asn

340 345 350
 Ser Met Ile Pro Ser Ala Ala Thr Leu Ile Ile Val Val Cys Val Gly
 355 360 365
 Phe Leu Val Leu Met Val Val Leu Gly Leu Val Arg Ile His Ser Leu
 370 375 380
 His Arg Arg Val Ser Gly Ala Gly Gly Pro Pro Gly Ala Ser Ser Asp
 385 390 395 400
 Pro Lys Asp Pro Asp Leu Phe Trp Asp Asp Ser Ala Leu Thr Ile Ile
 405 410 415
 Val Asn Pro Met Glu Ser Tyr Gln Asn Arg Gln Ser Cys Val Thr Gly
 420 425 430
 Ala Val Gly Gly Gln Gln Glu Asp Glu Asp Ser Ser Asp Ser Glu Val
 435 440 445
 Ala Asp Ser Pro Ser Ser Asp Glu Arg Arg Ile Ile Glu Thr Pro Pro
 450 455 460
 His Arg Tyr
 465

<210> 1977
 <211> 231
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (92)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (113)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (116)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1977
 Met Gln Ala Gly Lys Gly Leu Ala Gln Val Trp Gly Val Ala Thr Phe
 1 5 10 15
 Val Gln Leu Cys Ala His Thr Val Phe Leu Ser Met Tyr Leu Cys Met
 20 25 30
 His Ile Cys Phe Ala Ala Ile Ser Ser Lys Val Arg Val Arg Val Asn
 35 40 45
 Ala Pro Phe Cys Val Ser Val Pro Leu Lys Val His Ala Pro Leu Ser
 50 55 60

Leu Gly Ile Lys Val Gly Leu Gln Gly Gln Lys His Gly Arg Ala Thr
 65 70 75 80
 Gly Glu Ala Gly Met Pro Gln Gly Glu Met Leu Xaa Lys Gln Glu Pro
 85 90 95
 Gln Thr Ser Ser Ser Pro Lys Pro Thr Arg Arg Arg Glu Val Ser Arg
 100 105 110
 Xaa Glu Leu Xaa Pro Val Ile Pro Ser Ala Ala Thr Leu Ile Ile Val
 115 120 125
 Val Cys Val Gly Phe Leu Val Leu Met Val Val Leu Gly Leu Val Arg
 130 135 140
 Ile His Ser Leu His Arg Arg Val Ser Gly Ala Gly Gly Pro Pro Gly
 145 150 155 160
 Ala Ser Ser Asp Pro Lys Asp Pro Asp Leu Phe Trp Asp Asp Ser Ala
 165 170 175
 Leu Thr Ile Ile Val Asn Pro Met Glu Ser Tyr Gln Asn Arg Gln Ser
 180 185 190
 Cys Val Thr Gly Ala Val Gly Gly Gln Gln Glu Asp Glu Asp Ser Ser
 195 200 205
 Asp Ser Glu Val Ala Asp Ser Pro Ser Ser Asp Glu Arg Arg Ile Ile
 210 215 220
 Glu Thr Pro Pro His Arg Tyr
 225 230

<210> 1978

<211> 145

<212> PRT

<213> Homo sapiens

<400> 1978

Pro Phe Thr Phe Gln His Asp Cys Glu Ala Ser Pro Ala Thr Trp Asn
 1 5 10 15
 Tyr Leu Arg Arg Met Thr Ala Gly Phe Met Gly Met Ala Val Ala Ile
 20 25 30
 Ile Leu Phe Gly Trp Ile Ile Gly Val Leu Gly Cys Cys Trp Asp Arg
 35 40 45
 Gly Leu Met Gln Tyr Val Ala Gly Leu Leu Phe Leu Met Gly Gly Thr
 50 55 60
 Phe Cys Ile Ile Ser Leu Cys Thr Cys Val Ala Gly Ile Asn Phe Glu
 65 70 75 80
 Leu Ser Arg Tyr Pro Arg Tyr Leu Tyr Gly Leu Pro Asp Asp Ile Ser
 85 90 95

His Gly Tyr Gly Trp Ser Met Phe Cys Ala Trp Gly Gly Leu Gly Leu
 100 105 110

Thr Leu Ile Ser Gly Phe Phe Cys Thr Leu Ala Pro Ser Val Gln Pro
 115 120 125

Val Pro Arg Thr Asn Tyr Pro Lys Ser Arg Pro Glu Asn Gly Thr Val
 130 135 140

Cys
 145

<210> 1979
 <211> 125
 <212> PRT
 <213> Homo sapiens

<400> 1979
 Met Thr Ala Gly Phe Met Gly Met Ala Val Ala Ile Ile Leu Phe Gly
 1 5 10 15

Trp Ile Ile Gly Val Leu Gly Cys Cys Trp Asp Arg Gly Leu Met Gln
 20 25 30

Tyr Val Ala Gly Leu Leu Phe Leu Met Gly Gly Thr Phe Cys Ile Ile
 35 40 45

Ser Leu Cys Thr Cys Val Ala Gly Ile Asn Phe Glu Leu Ser Arg Tyr
 50 55 60

Pro Arg Tyr Leu Tyr Gly Leu Pro Asp Asp Ile Ser His Gly Tyr Gly
 65 70 75 80

Trp Ser Met Phe Cys Ala Trp Gly Gly Leu Gly Leu Thr Leu Ile Ser
 85 90 95

Gly Phe Phe Cys Thr Leu Ala Pro Ser Val Gln Pro Val Pro Arg Thr
 100 105 110

Asn Tyr Pro Lys Ser Arg Pro Glu Asn Gly Thr Val Cys
 115 120 125

<210> 1980
 <211> 146
 <212> PRT
 <213> Homo sapiens

<400> 1980
 Val Pro Phe Thr Phe Gln His Asp Cys Glu Ala Ser Pro Ala Thr Trp
 1 5 10 15

Asn Tyr Leu Arg Arg Met Thr Ala Gly Phe Met Gly Met Ala Val Ala
 20 25 30

Ile Ile Leu Phe Gly Trp Ile Ile Gly Val Leu Gly Cys Cys Trp Asp
 35 40 45

Arg Gly Leu Met Gln Tyr Val Ala Gly Leu Leu Phe Leu Met Gly Gly
 50 55 60
 Thr Phe Cys Ile Ile Ser Leu Cys Thr Cys Val Ala Gly Ile Asn Phe
 65 70 75 80
 Glu Leu Ser Arg Tyr Pro Arg Tyr Leu Tyr Gly Leu Pro Asp Asp Ile
 85 90 95
 Ser His Gly Tyr Gly Trp Ser Met Phe Cys Ala Trp Gly Gly Leu Gly
 100 105 110
 Leu Thr Leu Ile Ser Gly Phe Phe Cys Thr Leu Ala Pro Ser Val Gln
 115 120 125
 Pro Val Pro Arg Thr Asn Tyr Pro Lys Ser Arg Pro Glu Asn Gly Thr
 130 135 140
 Val Cys
 145

<210> 1981

<211> 109

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (40)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1981

Met Cys Ser Met Phe Cys Glu Arg Leu Leu Leu Leu Cys His Cys Gln
 1 5 10 15

Leu Ser Ile Ala Val Phe Met Tyr Trp Val His Val Thr His Leu Ser
 20 25 30

Ser Val Arg Arg Ile Asn Tyr Xaa Phe Leu Ile Tyr Lys Lys Gly Met
 35 40 45

Gln Leu Pro Ser Trp Tyr Pro Ser Ser Cys Pro Ala Ser Arg Lys Asn
 50 55 60

Gln Val Thr Gly Met Asn Gly Arg Val Val Asn Val Glu Asp Phe Ile
 65 70 75 80

Glu Gln Trp Lys Trp Leu Ser Val Gly Trp Gly Ala Arg Lys Gly Leu
 85 90 95

Glu Trp Glu Asp Asp Leu Tyr Leu Glu Phe Gly His Pro
 100 105

<210> 1982

<211> 109

<212> PRT

<213> Homo sapiens

<400> 1982

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Met Cys Ser Met Phe Cys Glu Arg Leu Leu Leu Cys His Cys Gln
 1              5              10              15
Leu Ser Ile Ala Val Phe Met Tyr Trp Val His Val Thr His Leu Ser
          20              25              30
Ser Val Arg Arg Ile Asn Tyr Val Phe Leu Ile Tyr Lys Lys Gly Met
          35              40              45
Gln Leu Pro Ser Trp Tyr Pro Ser Ser Cys Pro Ala Ser Arg Lys Asn
 50              55              60
Gln Val Thr Gly Met Asn Gly Arg Val Val Asn Val Glu Asp Phe Ile
 65              70              75              80
Glu Gln Trp Lys Trp Leu Ser Val Gly Trp Gly Ala Arg Lys Gly Leu
          85              90              95
Glu Trp Glu Asp Asp Leu Tyr Leu Glu Phe Gly His Pro
          100              105

```

<210> 1983

<211> 109

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (40)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1983

```

Met Cys Ser Met Phe Cys Glu Arg Leu Leu Leu Leu Cys His Cys Gln
 1              5              10              15
Leu Ser Ile Ala Val Phe Met Tyr Trp Val His Val Thr His Leu Ser
          20              25              30
Ser Val Arg Arg Ile Asn Tyr Xaa Phe Leu Ile Tyr Lys Lys Gly Met
          35              40              45
Gln Leu Pro Ser Trp Tyr Pro Ser Ser Cys Pro Ala Ser Arg Lys Asn
 50              55              60
Gln Val Thr Gly Met Asn Gly Arg Val Val Asn Val Glu Asp Phe Ile
 65              70              75              80
Glu Gln Trp Lys Trp Leu Ser Val Gly Trp Gly Ala Arg Lys Gly Leu
          85              90              95
Glu Trp Glu Asp Asp Leu Tyr Leu Glu Phe Gly His Pro
          100              105

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<210> 1984
 <211> 108
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (29)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (37)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (99)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1984
 Gly Ala Cys Arg Gly Ser Ser Glu Pro Gly Ala Thr Pro Arg Pro Asp
 1 5 10 15
 Gly Glu Pro Arg Pro Leu Pro Gly Leu His Cys Ala Xaa Gly Met Pro
 20 25 30
 Thr Pro Leu Pro Xaa Ser Pro Leu Gly Leu Arg Ser Leu Arg Arg Val
 35 40 45
 Gly Trp Pro Val Arg Lys Gly Arg Val Gly Arg Ala Trp Gly Trp Ala
 50 55 60
 Gly Leu Cys Glu Glu Leu Gln Pro Gln Ala Pro Pro Cys His Glu Ser
 65 70 75 80
 Lys Arg Gly Arg Gly Ala Val Ala His Asp Cys Asn Pro Ser Thr Leu
 85 90 95
 Gly Gly Xaa Ser Gly Gln Ile Thr Arg Ser Gly Val
 100 105

<210> 1985
 <211> 130
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (37)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1985
 Met Lys Lys Phe Ser Tyr Ala Phe Leu Tyr Phe Pro Ser Leu Asn Phe
 1 5 10 15
 Thr Val Ser Thr Trp Leu Cys Thr Ala Leu Phe Leu Leu His Ser His

	20		25		30										
His	Leu	Leu	Ala	Xaa	Cys	Gly	Ser	Thr	Phe	Ala	Gln	Val	Cys	Leu	Val
	35						40					45			
Ser	Glu	Ser	Met	Ser	Pro	Phe	Leu	Gly	Arg	Leu	Cys	Arg	Thr	Ser	Val
	50					55					60				
Pro	Cys	Ala	Gly	Ala	Thr	Ala	Phe	Pro	Ala	Asp	Ser	Asp	Arg	His	Cys
	65				70					75					80
Asn	Gly	Phe	Pro	Ala	Gly	Ala	Glu	Val	Thr	Asn	Arg	Pro	Ser	Pro	Trp
			85						90					95	
Arg	Pro	Leu	Val	Leu	Leu	Ile	Pro	Leu	Arg	Leu	Gly	Leu	Thr	Asp	Ile
			100					105						110	
Asn	Glu	Ala	Tyr	Val	Glu	Thr	Leu	Lys	Val	Gly	Pro	Ala	Val	Arg	Arg
			115				120						125		
Leu	Pro														
	130														

<210> 1986
 <211> 16
 <212> PRT
 <213> Homo sapiens

<400> 1986
 Pro Ala Ser Gln Lys Ala Val Ser Ala Trp Arg Cys Pro Ala His Val
 1 5 10 15

<210> 1987
 <211> 130
 <212> PRT
 <213> Homo sapiens

<400> 1987
 Met Lys Lys Phe Ser Tyr Ala Phe Leu Tyr Phe Pro Ser Leu Asn Phe
 1 5 10 15
 Thr Val Ser Thr Trp Leu Cys Thr Ala Leu Phe Leu Leu His Ser His
 20 25 30
 His Leu Leu Ala Cys Cys Gly Ser Thr Phe Ala Gln Val Cys Leu Val
 35 40 45
 Ser Glu Ser Met Ser Pro Phe Leu Gly Arg Leu Cys Arg Thr Ser Val
 50 55 60
 Pro Cys Ala Gly Ala Thr Ala Phe Pro Ala Asp Ser Asp Arg His Cys
 65 70 75 80

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<400> 1988
Met Ala Leu Ser Gly Gly Leu Arg Cys Cys Arg Arg Val Leu Ser Trp
  1              5              10              15

Val Pro Val Leu Val Ile Val Leu Val Val Leu Trp Ser Tyr Tyr Ala
      20              25              30

Tyr Val Phe Glu Leu Cys Leu Val Thr Val Leu Ser Pro Ala Glu Lys
      35              40              45

Val Ile Tyr Leu Ile Leu Tyr His Ala Ile Phe Val Phe Phe Thr Trp
      50              55              60

Thr Tyr Trp Lys Ser Ile Phe Thr Leu Pro Gln Gln Pro Asn Gln Lys
      65              70              75              80

Phe His Leu Ser Tyr Thr Asp Lys Glu Arg Tyr Glu Asn Glu Glu Arg
      85              90              95

Pro Glu Val Gln Lys Gln Met Leu Val Asp Met Ala Lys Lys Leu Pro
      100              105              110

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Val Tyr Thr Arg Thr Gly Ser Gly Ala Val Arg Phe Cys Asp Arg Cys
 115 120 125

His Leu Ile Lys Pro Asp Arg Cys His His Cys Ser Val Cys Ala Met
 130 135 140

Cys Val Leu Lys Met Asp His His Cys Pro Trp Val Asn Asn Cys Ile
 145 150 155 160

Gly Phe Ser Asn Tyr Lys Phe Phe Leu Gln Phe Leu Ala Tyr Ser Xaa
 165 170 175

Leu Tyr Cys Leu Xaa Ile Ala Thr Thr Val Phe Ser Tyr Phe Ile Lys
 180 185 190

Tyr Trp Xaa Gly Glu Leu Pro Xaa Val Ala
 195 200

<210> 1989
 <211> 96
 <212> PRT
 <213> Homo sapiens

<400> 1989
 Lys Pro Asn Gly Lys Asn Ile Ser Phe His Ser Ser Tyr Gln Val Lys
 1 5 10 15

Gly Asn Ser Glu Asn Phe Leu Arg Val Phe Asn Ser Pro Thr Lys Ile
 20 25 30

Ile Asn His Ile Tyr Arg Ala Phe Leu Val Leu Lys Gly Ile Lys Leu
 35 40 45

His Leu Leu Leu Val Cys Val Cys Ile Cys Glu His Val Gln His Ile
 50 55 60

Tyr Thr Lys Phe Cys Tyr Ser Val Lys Ile Arg Ala Lys Asn Leu Lys
 65 70 75 80

Pro Leu Phe Asn Tyr Ala Phe Pro Leu Asn Ser Asn Leu Asn Ile Cys
 85 90 95

<210> 1990
 <211> 331
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (176)
 <223> Xaa equals any of the naturally occurring L-amino acids.

<400> 1990

Met Ala Leu Ser Gly Gly Leu Arg Cys Cys Arg Arg Val Leu Ser Trp
 1 5 10 15
 Val Pro Val Leu Val Ile Val Leu Val Val Leu Trp Ser Tyr Tyr Ala
 20 25 30
 Tyr Val Phe Glu Leu Cys Leu Val Thr Val Leu Ser Pro Ala Glu Lys
 35 40 45
 Val Ile Tyr Leu Ile Leu Tyr His Ala Ile Phe Val Phe Phe Thr Trp
 50 55 60
 Thr Tyr Trp Lys Ser Ile Phe Thr Leu Pro Gln Gln Pro Asn Gln Lys
 65 70 75 80
 Phe His Leu Ser Tyr Thr Asp Lys Glu Arg Tyr Glu Asn Glu Glu Arg
 85 90 95
 Pro Glu Val Gln Lys Gln Met Leu Val Asp Met Ala Lys Lys Leu Pro
 100 105 110
 Val Tyr Thr Arg Thr Gly Ser Gly Ala Val Arg Phe Cys Asp Arg Cys
 115 120 125
 His Leu Ile Lys Pro Asp Arg Cys His His Cys Ser Val Cys Ala Met
 130 135 140
 Cys Val Leu Lys Met Asp His His Cys Pro Trp Val Asn Asn Cys Ile
 145 150 155 160
 Gly Phe Ser Asn Tyr Lys Phe Phe Leu Gln Phe Leu Ala Tyr Ser Xaa
 165 170 175
 Leu Tyr Cys Leu Tyr Ile Ala Thr Thr Val Phe Ser Tyr Phe Ile Lys
 180 185 190
 Tyr Trp Arg Gly Glu Leu Pro Ser Val Arg Ser Lys Phe His Val Leu
 195 200 205
 Phe Leu Leu Phe Val Ala Cys Met Phe Phe Val Ser Leu Val Ile Leu
 210 215 220
 Phe Gly Tyr His Cys Trp Leu Val Ser Arg Asn Lys Thr Thr Leu Glu
 225 230 235 240
 Ala Phe Cys Thr Pro Val Phe Thr Ser Gly Pro Glu Lys Asn Gly Phe
 245 250 255
 Asn Leu Gly Phe Ile Lys Asn Ile Gln Gln Val Phe Gly Asp Lys Lys
 260 265 270
 Lys Phe Trp Leu Ile Pro Ile Gly Ser Ser Pro Gly Asp Gly His Ser
 275 280 285
 Phe Pro Met Arg Ser Met Asn Glu Ser Gln Asn Pro Leu Leu Ala Asn
 290 295 300
 Glu Glu Thr Trp Glu Asp Asn Glu Asp Asp Asn Gln Asp Tyr Pro Glu
 305 310 315 320

Gly Ser Ser Ser Leu Ala Val Glu Thr Glu Thr
325 330

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<210> 1991
<211> 235
<212> PRT
<213> Homo sapiens
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<220>  
<221> SITE  
<222> (171)  
<223> Xaa equals any of the naturally occurring L-amino acids
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<220>
<221> SITE
<222> (205)
<223> Xaa equals any of the naturally occurring L-amino acids
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<220>
<221> SITE
<222> (210)
<223> Xaa equals any of the naturally occurring L-amino acids
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<220>
<221> SITE
<222> (221)
<223> Xaa equals any of the naturally occurring L-amino acids
```

```
<400> 1991 .
Met Trp Gly Leu Leu Leu Ala Leu Ala Ala Phe Ala Pro Ala Val Gly
      1             5             10             15
```

Pro Ala Leu Gly Ala Pro Arg Asn Ser Val Leu Gly Leu Ala Gln Pro
 - 20 25 30

Gly Thr Thr Lys Val Pro Gly Ser Thr Pro Ala Leu His Ser Ser Pro
35 40 45

Ala Gln Pro Pro Ala Glu Thr Ala Asn Gly Thr Ser Glu Gln His Val
50 55 60

Arg Ile Arg Val Ile Lys Lys Lys Lys Val Ile Met Lys Lys Arg Lys
65 70 75 80

Lys Leu Thr Leu Thr Arg Pro Thr Pro Leu Val Thr Ala Gly Pro Leu
85 90 95

Val Thr Pro Thr Pro Ala Gly Thr Leu Asp Pro Ala Glu Lys Gln Glu
100 105 110

Thr Gly Cys Pro Pro Leu Gly Leu Glu Ser Leu Arg Val Ser Asp Ser
115 120 125

Arg Leu Glu Ala Ser Ser Ser Gln Ser Phe Gly Leu Gly Pro His Arg
130 135 140

Gly Arg Leu Asn Ile Gln Ser Gly Leu Glu Asp Gly Asp Leu Tyr Asp
1291

145 150 155 160
 Gly Ala Trp Cys Ala Glu Glu Gln Asp Ala Xaa Pro Trp Phe Gln Val
 165 170 175
 Asp Ala Gly His Pro Thr Arg Phe Leu Gly Gly Ile Thr Gln Gly Lys
 180 185 190
 Glu Leu Leu Ser Gly Gly Glu Gly Arg Leu Thr Leu Xaa Gln Glu Val
 195 200 205
 Gln Xaa Gly Leu Gly Leu Gly Ser Pro Gly Gly Thr Xaa Asp Leu Ser
 210 215 220
 Ser Pro Phe Leu Ala Gly Met Met Gly Ser His
 225 230 235

<210> 1992

<211> 197

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (169)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (187)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (194)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1992

Met Trp Gly Leu Leu Leu Ala Leu Ala Ala Phe Ala Pro Ala Val Gly
 1 5 10 15

Pro Ala Leu Gly Ala Pro Arg Asn Ser Val Leu Gly Leu Ala Gln Pro
 20 25 30

Gly Thr Thr Lys Val Pro Gly Ser Thr Pro Ala Leu His Ser Ser Pro
 35 40 45

Ala Gln Pro Pro Ala Glu Thr Ala Asn Gly Thr Ser Glu Gln His Val
 50 55 60

Arg Ile Arg Val Ile Lys Lys Lys Lys Val Ile Met Lys Lys Arg Lys
 65 70 75 80

Lys Leu Thr Leu Thr Arg Pro Thr Pro Leu Val Thr Ala Gly Pro Leu
 85 90 95

Val Thr Pro Thr Pro Ala Gly Thr Leu Asp Pro Ala Glu Lys Gln Glu
 100 105 110

Thr Gly Cys Pro Pro Leu Gly Leu Glu Ser Leu Arg Val Ser Asp Ser
 115 120 125
 Arg Leu Glu Ala Ser Ser Ser Gln Ser Phe Gly Leu Gly Pro His Arg
 130 135 140
 Gly Arg Leu Asn Ile Gln Ser Gly Leu Glu Asp Gly Asp Leu Tyr Asp
 145 150 155 160
 Gly Ala Trp Cys Ala Glu Glu Gln Xaa Ala Asp Pro Trp Phe Gln Val
 165 170 175
 Asp Ala Gly His Pro Thr Arg Phe Ser Gly Xaa Ile Thr Gln Gly Arg
 180 185 190
 Asn Xaa Val Trp Arg
 195

<210> 1993
 <211> 197
 <212> PRT
 <213> Homo sapiens

<400> 1993
 Met Trp Gly Leu Leu Leu Ala Leu Ala Ala Phe Ala Pro Ala Val Gly
 1 5 10 15
 Pro Ala Leu Gly Ala Pro Arg Asn Ser Val Leu Gly Leu Ala Gln Pro
 20 25 30
 Gly Thr Thr Lys Val Pro Gly Ser Thr Pro Ala Leu His Ser Ser Pro
 35 40 45
 Ala Gln Pro Pro Ala Glu Thr Ala Asn Gly Thr Ser Glu Gln His Val
 50 55 60
 Arg Ile Arg Val Ile Lys Lys Lys Val Ile Met Lys Lys Arg Lys
 65 70 75 80
 Lys Leu Thr Leu Thr Arg Pro Thr Pro Leu Val Thr Ala Gly Pro Leu
 85 90 95
 Val Thr Pro Thr Pro Ala Gly Thr Leu Asp Pro Ala Glu Lys Gln Glu
 100 105 110
 Thr Gly Cys Pro Pro Leu Gly Leu Glu Ser Leu Arg Val Ser Asp Ser
 115 120 125
 Arg Leu Glu Ala Ser Ser Ser Gln Ser Phe Gly Leu Gly Pro His Arg
 130 135 140
 Gly Arg Leu Asn Ile Gln Ser Gly Leu Glu Asp Gly Asp Leu Tyr Asp
 145 150 155 160
 Gly Ala Trp Cys Ala Glu Glu Gln Asp Ala Asp Pro Trp Phe Gln Val
 165 170 175

Asp Ala Gly His Pro Thr Arg Phe Ser Gly Val Ile Thr Gln Gly Arg
 180 185 190

Asn Ser Val Trp Arg
 195

<210> 1994

<211> 241

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (229)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (230)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (236)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1994

Met Ala Leu Arg Leu Leu Arg Arg Ala Ala Arg Gly Ala Ala Ala Ala
 1 5 10 15

Ala Leu Leu Arg Leu Lys Ala Ser Leu Ala Ala Asp Ile Pro Arg Leu
 20 25 30

Gly Tyr Ser Ser Ser Ser His His Lys Tyr Ile Pro Arg Arg Ala Val
 35 40 45

Leu Tyr Val Pro Gly Asn Asp Glu Lys Lys Ile Lys Lys Ile Pro Ser
 50 55 60

Leu Asn Val Asp Cys Ala Val Leu Asp Cys Glu Asp Gly Val Ala Ala
 65 70 75 80

Asn Lys Lys Asn Glu Ala Arg Leu Arg Ile Val Lys Thr Leu Glu Asp
 85 90 95

Ile Asp Leu Gly Pro Thr Glu Lys Cys Val Arg Val Asn Ser Val Ser
 100 105 110

Ser Gly Leu Ala Glu Glu Asp Leu Glu Thr Leu Leu Gln Ser Arg Val
 115 120 125

Leu Pro Ser Ser Leu Met Leu Pro Lys Val Glu Ser Pro Glu Glu Ile
 130 135 140

Gln Trp Phe Ala Asp Lys Phe Ser Phe His Leu Lys Gly Arg Lys Leu
 145 150 155 160

Glu Gln Pro Met Asn Leu Ile Pro Phe Val Glu Thr Ala Met Gly Leu

165 170 175
 Leu Asn Phe Lys Ala Val Cys Glu Glu Thr Leu Lys Val Gly Pro Gln
 180 185 190
 Val Gly Leu Phe Leu Asp Ala Val Val Phe Gly Gly Glu Asp Phe Arg
 195 200 205
 Ala Ser Ile Gly Ala Thr Ser Ser Lys Glu Thr Leu Gly Tyr Ser Leu
 210 215 220
 Arg Pro Ala Lys Xaa Xaa Cys His Ser Glu Thr Xaa Trp Val Ser Lys
 225 230 235 240
 Pro

<210> 1995
 <211> 340
 <212> PRT
 <213> Homo sapiens

<400> 1995

Met Ala Leu Arg Leu Leu Arg Arg Ala Ala Arg Gly Ala Ala Ala Ala
 1 5 10 15
 Ala Leu Leu Arg Leu Lys Ala Ser Leu Ala Ala Asp Ile Pro Arg Leu
 20 25 30
 Gly Tyr Ser Ser Ser Ser His His Lys Tyr Ile Pro Arg Arg Ala Val
 35 40 45
 Leu Tyr Val Pro Gly Asn Asp Glu Lys Lys Ile Lys Lys Ile Pro Ser
 50 55 60
 Leu Asn Val Asp Cys Ala Val Leu Asp Cys Glu Asp Gly Val Ala Ala
 65 70 75 80
 Asn Lys Lys Asn Glu Ala Arg Leu Arg Ile Val Lys Thr Leu Glu Asp
 85 90 95
 Ile Asp Leu Gly Pro Thr Glu Lys Cys Val Arg Val Asn Ser Val Ser
 100 105 110
 Ser Gly Leu Ala Glu Glu Asp Leu Glu Thr Leu Leu Gln Ser Arg Val
 115 120 125
 Leu Pro Ser Ser Leu Met Leu Pro Lys Val Glu Ser Pro Glu Glu Ile
 130 135 140
 Gln Trp Phe Ala Asp Lys Phe Ser Phe His Leu Lys Gly Arg Lys Leu
 145 150 155 160
 Glu Gln Pro Met Asn Leu Ile Pro Phe Val Glu Thr Ala Met Gly Leu
 165 170 175
 Leu Asn Phe Lys Ala Val Cys Glu Glu Thr Leu Lys Val Gly Pro Gln
 180 185 190

1295

Val Gly Leu Phe Leu Asp Ala Val Val Phe Gly Gly Glu Asp Phe Arg
 195 200 205
 Ala Ser Ile Gly Ala Thr Ser Ser Lys Glu Thr Leu Asp Ile Leu Tyr
 210 215 220
 Ala Arg Gln Lys Ile Val Val Ile Ala Lys Ala Phe Gly Leu Gln Ala
 225 230 235 240
 Val Asp Leu Val Tyr Ile Asp Phe Arg Asp Gly Ala Gly Leu Leu Arg
 245 250 255
 Gln Ser Arg Glu Gly Ala Ala Met Gly Phe Thr Gly Lys Gln Val Ile
 260 265 270
 His Pro Asn Gln Ile Ala Val Val Gln Glu Gln Phe Ser Pro Ser Pro
 275 280 285
 Glu Lys Ile Lys Trp Ala Glu Glu Leu Ile Ala Ala Phe Lys Glu His
 290 295 300
 Gln Gln Leu Gly Lys Gly Ala Phe Thr Phe Gln Gly Ser Met Ile Asp
 305 310 315 320
 Met Pro Leu Leu Lys Gln Ala Gln Asn Thr Val Thr Leu Ala Thr Ser
 325 330 335
 Ile Lys Glu Lys
 340

<210> 1996

<211> 85

<212> PRT

<213> Homo sapiens

<400> 1996

Met Ser Pro Pro Pro Pro Leu Leu Leu Leu Leu Leu Ser Leu Ala
 1 5 10 15
 Leu Leu Gly Ala Arg Ala Arg Ala Glu Pro Ala Gly Ser Ala Val Pro
 20 25 30
 Ala Gln Ser Arg Pro Cys Val Asp Cys His Ala Phe Glu Phe Met Gln
 35 40 45
 Arg Ala Leu Gln Asp Leu Arg Lys Thr Ala Cys Ser Leu Asp Ala Arg
 50 55 60
 Thr Glu Thr Leu Leu Leu Gln Ala Glu Arg Arg Ala Leu Cys Ala Cys
 65 70 75 80
 Trp Pro Ala Gly His
 85

<210> 1997

<211> 95
 <212> PRT
 <213> Homo sapiens

<400> 1997

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Met Ala Pro Pro Pro Ala Cys Arg Ser Pro Met Ser Pro Pro Pro Pro
 1           5           10           15

Leu Leu Leu Leu Leu Leu Leu Ser Leu Ala Leu Leu Gly Ala Arg Ala
    20           25           30

Arg Ala Glu Pro Ala Gly Ser Ala Val Pro Ala Gln Ser Arg Pro Cys
    35           40           45

Val Asp Cys His Ala Phe Glu Phe Met Gln Arg Ala Leu Gln Asp Leu
    50           55           60

Arg Lys Thr Ala Cys Ser Leu Asp Ala Arg Thr Glu Thr Leu Leu Leu
    65           70           75           80

Gln Ala Glu Arg Arg Ala Leu Cys Ala Cys Trp Pro Ala Gly His
    85           90           95

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<210> 1998
 <211> 84
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (76)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (78)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (79)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (80)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (84)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1998

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Met Leu Cys Met Gln Thr Val Met Pro Gln His Thr Tyr Leu Gln His
 1           5           10           15

Leu Val Phe Gly Phe Cys Leu Leu Ile Leu Cys Ile Asn Leu Ser Val

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	20							25						30					
Leu Ala His Arg Tyr Thr Leu Cys Tyr Phe Ser Met Thr Gly Glu Tyr																			
	35							40						45					
Ser Ile Ile Asn Gly Gln Leu Leu Val Tyr Leu Ser Asn Leu Ser Ala																			
	50							55						60					
Gln Trp Lys Tyr Arg Tyr Phe Gln Thr Leu Leu Xaa Leu Xaa Xaa Xaa																			
	65							70						7580					
Gly Val Val Xaa																			

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<210> 1999
<211> 105
<212> PRT
<213> Homo sapiens
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<400> 1999
Met Leu Cys Met Gln Thr Val Met Pro Gln His Thr Tyr Leu Gln His
  1                      5                      10                      15

Leu Val Phe Gly Phe Cys Leu Leu Ile Leu Cys Ile Asn Leu Ser Val
                20                      25                      30

Leu Ala His Arg Tyr Thr Leu Cys Tyr Phe Ser Met Thr Gly Glu Tyr
                35                      40                      45

Ser Ile Ile Asn Gly Gln Leu Leu Val Tyr Leu Ser Asn Leu Ser Ala
  50                      55                      60

Gln Trp Lys Tyr Arg Tyr Phe Gln Thr Leu Leu Val Leu Lys Lys Lys
  65                      70                      75                      80

Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys
                85                      90                      95

Lys Lys Lys Lys Lys Lys Lys Lys Lys
  100                      105

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<210> 2000
<211> 108
<212> PRT
<213> Homo sapiens
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<220>
<221> SITE
<222> (76)
<223> Xaa equals any of the naturally occurring L-amino acids
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<220>
<221> SITE
<222> (106)
<223> Xaa equals any of the naturally occurring L-amino acids.
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<400> 2000

Met Leu Cys Met Gln Thr Val Met Pro Gln His Thr Tyr Leu Gln His
 1 5 10 15

Leu Val Phe Gly Phe Cys Leu Leu Ile Leu Cys Ile Asn Leu Ser Val
 20 25 30

Leu Ala His Arg Tyr Thr Leu Cys Tyr Phe Ser Met Thr Gly Glu Tyr
 35 40 45

Ser Ile Ile Asn Gly Gln Leu Leu Val Tyr Leu Ser Asn Leu Ser Ala
 50 55 60

Gln Trp Lys Tyr Arg Tyr Phe Gln Thr Leu Leu Xaa Leu Lys Lys Lys
 65 70 75 80

Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys
 85 90 95

Lys Lys Lys Lys Lys Lys Lys Lys Lys Xaa Lys Lys
 100 105

<210> 2001

<211> 75

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (62)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2001

Met Pro Leu Ala Pro Ser Pro Val Met Leu Ile Leu Val Ile Leu Leu
 1 5 10 15

Leu Phe Cys Pro Ser Phe Gln Phe Leu Pro Ile Ser Phe Tyr Ser Phe
 20 25 30

Asn Val Tyr Ala Phe Ala Phe Ser Gly Ile Ser Pro Pro Ser Cys Leu
 35 40 45

His Gly Trp Leu His Phe Ile Gln Ser Ser Phe Phe Leu Xaa Tyr Ser
 50 55 60

Asp Asn Ile Leu Val Ser Pro Ser Leu Tyr Leu
 65 70 75

<210> 2002

<211> 75

<212> PRT

<213> Homo sapiens

<400> 2002

Met Pro Leu Ala Pro Ser Pro Val Met Leu Ile Leu Val Ile Leu Leu
 1 5 10 15

Leu Phe Cys Pro Ser Phe Gln Phe Leu Pro Ile Ser Phe Tyr Ser Phe
 20 25 30
 Asn Val Tyr Ala Phe Ala Phe Ser Gly Ile Ser Pro Pro Ser Cys Leu
 35 40 45
 His Gly Trp Leu His Phe Ile Gln Ser Ser Phe Phe Leu Leu Tyr Ser
 50 55 60
 Asp Asn Ile Leu Phe Ser Pro Ser Leu Tyr Leu
 65 70 75

<210> 2003

<211> 147

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (119)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2003

Met Trp Leu Trp Val Trp Leu Ile His Thr Leu His Ser Gly Leu Gln
 1 5 10 15
 Lys Pro Arg Glu Arg Ser Leu Pro Glu Ala Thr Phe Gln Asn Leu Leu
 20 25 30
 His Pro Pro Thr Asp Leu Pro Ser Pro Cys Pro Leu Phe Glu Ser Arg
 35 40 45
 Cys Gln Val Leu Pro Ala Asp Thr Trp Leu Leu Glu Gly Arg Cys Ser
 50 55 60
 Phe His Leu Thr Met Gln Ala Cys Phe Ala Val Gly Arg Ala Val Leu
 65 70 75 80
 Ser Ser Ser Gln Leu His Thr Gly Ile Thr Trp Arg Val Gln Lys Leu
 85 90 95
 Pro Ala Ser Val Lys Glu His Gln Cys Ile Ser Thr Ala Asn Ile Pro
 100 105 110
 Asn Ala Arg Leu Asp Ser Xaa Gln Leu Pro Gly Pro Pro Gly Phe Ser
 115 120 125
 Ser Phe Gln Glu Leu Ser Asp Pro Gly Ser Ser Leu Asn Val Gly Tyr
 130 135 140
 Lys Leu Thr
 145

<210> 2004

<211> 147

<212> PRT

<213> Homo sapiens

<400> 2004

```

Met Trp Leu Trp Val Trp Leu Ile His Thr Leu His Ser Gly Leu Gln
 1              5              10              15
Lys Pro Arg Glu Arg Ser Leu Pro Glu Ala Thr Phe Gln Asn Leu Leu
      20              25              30
His Pro Pro Thr Asp Leu Pro Ser Pro Cys Pro Leu Phe Glu Ser Arg
      35              40              45
Cys Gln Val Leu Pro Ala Asp Thr Trp Leu Leu Glu Gly Arg Cys Ser
      50              55              60
Phe His Leu Thr Met Gln Ala Cys Phe Ala Val Gly Arg Ala Val Leu
      65              70              75              80
Ser Ser Ser Gln Leu His Thr Gly Ile Thr Trp Arg Val Gln Lys Leu
      85              90              95
Pro Ala Ser Val Lys Glu His Gln Cys Ile Ser Thr Ala Asn Ile Pro
      100              105              110
Asn Ala Arg Leu Asp Ser Leu Gln Leu Pro Gly Pro Pro Gly Phe Ser
      115              120              125
Ser Phe Gln Glu Leu Ser Asp Pro Gly Ser Ser Leu Asn Val Gly Tyr
      130              135              140
Lys Leu Thr
145

```

<210> 2005

<211> 147

<212> PRT

<213> Homo sapiens

<400> 2005

```

Met Trp Leu Trp Val Trp Leu Ile His Thr Leu His Ser Gly Leu Gln
 1              5              10              15
Lys Pro Arg Glu Arg Ser Leu Pro Glu Ala Thr Phe Gln Asn Leu Leu
      20              25              30
His Pro Pro Thr Asp Leu Pro Ser Pro Cys Pro Leu Phe Glu Ser Arg
      35              40              45
Cys Gln Val Leu Pro Ala Asp Thr Trp Leu Leu Glu Gly Arg Cys Ser
      50              55              60
Phe His Leu Thr Met Gln Ala Cys Phe Ala Val Gly Arg Ala Val Leu
      65              70              75              80
Ser Ser Ser Gln Leu His Thr Gly Ile Thr Trp Arg Val Gln Lys Leu
      85              90              95

```


Pro Ala Ser Val Lys Glu His Gln Cys Ile Ser Thr Ala Asn Ile Pro
 100 105 110

Asn Ala Arg Leu Asp Ser Leu Gln Leu Pro Gly Pro Pro Gly Phe Ser
 115 120 125

Ser Phe Gln Glu Leu Ser Asp Pro Gly Ser Ser Leu Asn Val Gly Tyr
 130 135 140

Lys Leu Thr
 145

<210> 2006

<211> 127

<212> PRT

<213> Homo sapiens

<400> 2006

Gln Gly Tyr Phe Arg Met Asp Ser Ser Ala Thr Gln Phe His Ile Glu
 1 5 10 15

Thr His Glu Asn Thr Ser Gly Leu Trp Ser Ile Trp Tyr Arg Asn His
 20 25 30

Phe Asp Arg Ser Val Val Leu Asn Asp Val Phe Leu Ser Lys Glu Thr
 35 40 45

Lys His Met Leu Lys Ile Leu Asn Phe Thr Gly Pro Leu Phe Leu Pro
 50 55 60

Pro Gly Cys Trp Asn Ile Phe Ser Leu Lys Leu Ala Val Lys Asp Ile
 65 70 75 80

Ala Ile Asn Leu Phe Thr Asn Val Phe Leu Thr Thr Asn Ile Gly Ala
 85 90 95

Ile Phe Ala Ile Pro Leu Gln Ile Ser His Cys Leu Glu Thr Arg Val
 100 105 110

Thr Val Gly Met Cys Glu Asn Asn Trp Ile Phe Lys Gln Cys Glu
 115 120 125

<210> 2007

<211> 221

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2007

Lys Gly Thr Pro Ala Gly Thr Gly Pro Glu Phe Pro Gly Arg Pro Thr
 1 5 10 15
 Arg Pro Gly Asp Leu Trp Pro Thr Xaa Xaa Val Cys Val Thr Ser Ser
 20 25 30
 Leu Xaa Cys Thr Leu Glu Asn Gly Val Pro Cys Val Ile Gln Glu Ser
 35 40 45
 Ala Pro Val His Asn Ser Phe Ile Asp Trp Ser Ala Thr Cys Glu Gly
 50 55 60
 Gln Phe Ser Ser Ala Tyr Cys Pro Leu Glu Leu Asn Asp Tyr Asn Ala
 65 70 75 80
 Phe Pro Glu Glu Asn Met Asn Tyr Ala Asn Gly Phe Pro Cys Pro Ala
 85 90 95
 Asp Val Gln Thr Asp Phe Ile Asp His Asn Ser Gln Ser Thr Trp Asn
 100 105 110
 Thr Pro Pro Asn Met Pro Ala Ala Trp Gly His Ala Ser Phe Ile Ser
 115 120 125
 Ser Pro Pro Tyr Leu Thr Ser Thr Arg Ser Leu Ser Pro Met Ser Gly
 130 135 140
 Leu Phe Gly Ser Ile Trp Ala Pro Gln Ser Asp Val Tyr Glu Asn Cys
 145 150 155 160
 Cys Pro Ile Asn Pro Thr Thr Glu His Ser Thr His Met Glu Asn Gln
 165 170 175
 Ala Val Val Cys Lys Glu Tyr Tyr Pro Gly Phe Asn Pro Phe Arg Ala
 180 185 190
 Tyr Met Asn Leu Asp Ile Trp Thr Thr Thr Ala Asn Arg Asn Ala Asn
 195 200 205
 Phe Pro Leu Ser Arg Asp Ser Ser Tyr Cys Gly Asn Val
 210 215 220

<210> 2008

<211> 166

<212> PRT

<213> Homo sapiens

<400> 2008

Met Ala Gly Leu Arg Arg Pro Gln Pro Gly Cys Tyr Cys Arg Thr Ala
 1 5 10 15

[illegible]

<210> 2009

<211> 19

<212> PRT

<213> Homo sapiens

<400> 2009

Ile Pro Cys Thr Arg Pro Leu Gly Phe Pro Cys Gly Ser Asn Val Pro
1 5 10 15

Trp Trp Gly

<210> 2010

<211> 511

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (171)

<223> Xaa equals any of the naturally occurring L-amino acids

 $\langle 220 \rangle$

<221> SITE

<222> (358)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (388)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2010

Met Ala Gly Leu Arg Arg Pro Gln Pro Gly Cys Tyr Cys Arg Thr Ala
 1 5 10 15

Ala Ala Val Asn Leu Leu Leu Gly Val Phe Gln Val Leu Leu Pro Cys
 20 25 30

Cys Arg Pro Gly Gly Ala Gln Gly Gln Ala Ile Glu Pro Leu Pro Asn
 35 40 45

Val Val Glu Leu Trp Gln Ala Glu Glu Gly Glu Leu Leu Leu Pro Thr
 50 55 60

Gln Gly Asp Ser Glu Glu Gly Leu Glu Glu Pro Ser Gln Glu Gln Ser
 65 70 75 80

Phe Ser Asp Lys Leu Phe Ser Gly Lys Gly Leu His Phe Gln Pro Ser
 85 90 95

Val Leu Asp Phe Gly Ile Gln Phe Leu Gly His Pro Val Ala Lys Ile
 100 105 110

Leu His Ala Tyr Asn Pro Ser Arg Asp Ser Glu Val Val Val Asn Ser
 115 120 125

Val Phe Ala Ala Ala Gly His Phe His Val Pro Pro Val Pro Cys Arg
 130 135 140

Val Ile Pro Ala Met Gly Lys Thr Ser Phe Arg Ile Ile Phe Leu Pro
 145 150 155 160

Thr Glu Glu Gly Ser Ile Glu Ser Ser Leu Xaa Ile Asn Thr Ser Ser
 165 170 175

Tyr Gly Val Leu Ser Tyr His Val Ser Gly Ile Gly Thr Arg Arg Ile
 180 185 190

Ser Thr Glu Gly Ser Ala Lys Gln Leu Pro Asn Ala Tyr Phe Leu Leu
 195 200 205

Pro Lys Val Gln Ser Ile Gln Leu Ser Gln Met Gln Ala Glu Thr Thr
 210 215 220

Asn Thr Ser Leu Leu Gln Val Gln Leu Glu Cys Ser Leu His Asn Lys
 225 230 235 240

Val Cys Gln Gln Leu Lys Gly Cys Tyr Leu Glu Ser Asp Asp Val Leu
 245 250 255

Arg Leu Gln Met Ser Ile Met Val Thr Met Glu Asn Phe Ser Lys Glu
 260 265 270

Phe Glu Glu Asn Thr Gln His Leu Leu Asp His Leu Ser Ile Val Tyr
 275 280 285

1305

Val Ala Thr Asp Glu Ser Glu Thr Ser Asp Asp Ser Ala Val Asn Met
 290 295 300
 Tyr Ile Leu His Ser Gly Asn Ser Leu Ile Trp Ile Gln Asp Ile Arg
 305 310 315 320
 His Phe Ser Gln Arg Asp Ala Leu Ser Leu Gln Phe Glu Pro Val Leu
 325 330 335
 Leu Pro Thr Ser Thr Thr Asn Phe Thr Lys Ile Ala Ser Phe Thr Cys
 340 345 350
 Lys Ala Ala Thr Ser Xaa Asp Ser Gly Ile Ile Glu Asp Val Lys Lys
 355 360 365
 Thr Thr His Thr Pro Thr Leu Lys Ala Cys Leu Phe Ser Ser Val Ala
 370 375 380
 Gln Gly Tyr Xaa Arg Met Asp Ser Ser Ala Thr Gln Phe His Ile Glu
 385 390 395 400
 Thr His Glu Asn Thr Ser Gly Leu Trp Ser Ile Trp Tyr Arg Asn His
 405 410 415
 Phe Asp Arg Ser Val Val Leu Asn Asp Val Phe Leu Ser Lys Glu Thr
 420 425 430
 Lys His Met Leu Lys Ile Leu Asn Phe Thr Gly Pro Leu Phe Leu Pro
 435 440 445
 Pro Gly Cys Trp Asn Ile Phe Ser Leu Lys Leu Ala Val Lys Asp Ile
 450 455 460
 Ala Ile Asn Leu Phe Thr Asn Val Phe Leu Thr Thr Asn Ile Gly Ala
 465 470 475 480
 Ile Phe Ala Ile Pro Leu Gln Ile Ser His Cys Leu Glu Thr Arg Val
 485 490 495
 Thr Val Gly Met Cys Glu Asn Asn Trp Ile Phe Lys Gln Cys Glu
 500 505 510

<210> 2011

<211> 317

<212> PRT

<213> Homo sapiens

<400> 2011

Met Ile Ala Leu Leu Lys Ile Leu Leu Ala Ala Ala Pro Thr Ser Lys
 1 5 10 15
 Ala Lys Thr Asp Ser Ile Asn Ile Leu Ala Asp Val Leu Pro Glu Glu
 20 25 30
 Met Pro Thr Thr Val Leu Gln Ser Met Lys Leu Gly Val Asp Val Asn
 35 40 45

Arg His Lys Glu Val Ile Val Lys Ala Ile Ser Ala Val Leu Leu Leu
 50 55 60
 Leu Leu Lys His Phe Lys Leu Asn His Val Tyr Gln Phe Glu Tyr Met
 65 70 75 80
 Ala Gln His Leu Val Phe Ala Asn Cys Ile Pro Leu Ile Leu Lys Phe
 85 90 95
 Phe Asn Gln Asn Ile Met Ser Tyr Ile Thr Ala Lys Asn Ser Ile Ser
 100 105 110
 Val Leu Asp Tyr Pro His Cys Val Val His Glu Leu Pro Glu Leu Thr
 115 120 125
 Ala Glu Ser Leu Glu Ala Gly Asp Ser Asn Gln Phe Cys Trp Arg Asn
 130 135 140
 Leu Phe Ser Cys Ile Asn Leu Leu Arg Ile Leu Asn Lys Leu Thr Lys
 145 150 155 160
 Trp Lys His Ser Arg Thr Met Met Leu Val Val Phe Lys Ser Ala Pro
 165 170 175
 Ile Leu Lys Arg Ala Leu Lys Val Lys Gln Ala Met Met Gln Leu Tyr
 180 185 190
 Val Leu Lys Leu Leu Lys Val Gln Thr Lys Tyr Leu Gly Arg Gln Trp
 195 200 205
 Arg Lys Ser Asn Met Lys Thr Met Ser Ala Ile Tyr Gln Lys Val Arg
 210 215 220
 His Arg Leu Asn Asp Asp Trp Ala Tyr Gly Asn Asp Leu Asp Ala Arg
 225 230 235 240
 Pro Trp Asp Phe Gln Ala Glu Glu Cys Ala Leu Arg Ala Asn Ile Glu
 245 250 255
 Arg Phe Asn Ala Arg Arg Tyr Asp Arg Ala His Ser Asn Pro Asp Phe
 260 265 270
 Leu Pro Val Asp Asn Cys Leu Gln Ser Val Leu Gly Gln Arg Val Asp
 275 280 285
 Leu Pro Glu Asp Phe Gln Met Asn Tyr Asp Leu Trp Leu Glu Arg Glu
 290 295 300
 Val Phe Ser Lys Pro Ile Ser Trp Glu Glu Leu Leu Gln
 305 310 315

<210> 2012

<211> 957

<212> PRT

<213> Homo sapiens

<400> 2012

Met Ala Leu Leu His Trp Gly Ala Leu Trp Arg Gln Leu Ala Ser Pro

1	5	10	15
Cys Gly Ala Trp	Ala Leu Arg Asp	Thr Pro Ile Pro	Arg Trp Lys Leu
	20	25	30
Ser Ser Ala Glu	Thr Tyr Ser Arg	Met Arg Leu Lys	Leu Val Pro Asn
	35	40	45
His His Phe Asp	Pro His Leu Glu	Ala Ser Ala Leu	Arg Asp Asn Leu
	50	55	60
Gly Glu Val Pro	Leu Thr Pro Thr	Glu Glu Ala Ser	Leu Pro Leu Ala
	65	70	75
Val Thr Lys Glu	Ala Lys Val Ser	Thr Pro Pro Glu	Leu Leu Gln Glu
	85	90	95
Asp Gln Leu Gly	Glu Asp Glu Leu	Ala Glu Leu Glu	Thr Pro Met Glu
	100	105	110
Ala Ala Glu Leu	Asp Glu Gln Arg	Glu Lys Leu Val	Leu Ser Ala Glu
	115	120	125
Cys Gln Leu Val	Thr Val Val Ala	Val Val Pro Gly	Leu Leu Glu Val
	130	135	140
Thr Thr Gln Asn	Val Tyr Phe Tyr	Asp Gly Ser Thr	Glu Arg Val Glu
	145	150	155
Thr Glu Glu Gly	Ile Gly Tyr Asp	Phe Arg Arg Pro	Leu Ala Gln Leu
	165	170	175
Arg Glu Val His	Leu Arg Arg Phe	Asn Leu Arg Arg	Ser Ala Leu Glu
	180	185	190
Leu Phe Phe Ile	Asp Gln Ala Asn	Tyr Phe Leu Asn	Phe Pro Cys Lys
	195	200	205
Val Gly Thr Thr	Pro Val Ser Ser	Pro Ser Gln Thr	Pro Arg Pro Gln
	210	215	220
Pro Gly Pro Ile	Pro Pro His Thr	Gln Val Arg Asn	Gln Val Tyr Ser
	225	230	235
Trp Leu Leu Arg	Leu Arg Pro Pro	Ser Gln Gly Tyr	Leu Ser Ser Arg
	245	250	255
Ser Pro Gln Glu	Met Leu Arg Ala	Ser Gly Leu Thr	Gln Lys Trp Val
	260	265	270
Gln Arg Glu Ile	Ser Asn Phe Glu	Tyr Leu Met Gln	Leu Asn Thr Ile
	275	280	285
Ala Gly Arg Thr	Tyr Asn Asp Leu	Ser Gln Tyr Pro	Val Phe Pro Trp
	290	295	300
Val Leu Gln Asp	Tyr Val Ser Pro	Thr Leu Asp Leu	Ser Asn Pro Ala
	305	310	315
Val Phe Arg Asp	Leu Ser Lys Pro	Ile Gly Val Val	Asn Pro Lys His

325										330					335				
Ala	Gln	Leu	Val	Arg	Glu	Lys	Tyr	Glu	Ser	Phe	Glu	Asp	Pro	Ala	Gly				
			340					345					350						
Thr	Ile	Asp	Lys	Phe	His	Tyr	Gly	Thr	His	Tyr	Ser	Asn	Ala	Ala	Gly				
		355					360					365							
Val	Met	His	Tyr	Leu	Ile	Arg	Val	Glu	Pro	Phe	Thr	Ser	Leu	His	Val				
		370				375						380							
Gln	Leu	Gln	Ser	Gly	Arg	Phe	Asp	Cys	Ser	Asp	Arg	Gln	Phe	His	Ser				
385					390					395					400				
Val	Ala	Ala	Ala	Trp	Gln	Ala	Arg	Leu	Glu	Ser	Pro	Ala	Asp	Val	Lys				
				405					410					415					
Glu	Leu	Ile	Pro	Glu	Phe	Phe	Tyr	Phe	Pro	Asp	Phe	Leu	Glu	Asn	Gln				
			420					425					430						
Asn	Gly	Phe	Asp	Leu	Gly	Cys	Leu	Gln	Leu	Thr	Asn	Glu	Lys	Val	Gly				
		435				440						445							
Asp	Val	Val	Leu	Pro	Pro	Trp	Ala	Ser	Ser	Pro	Glu	Asp	Phe	Ile	Gln				
		450				455					460								
Gln	His	Arg	Gln	Ala	Leu	Glu	Ser	Glu	Tyr	Val	Ser	Ala	His	Leu	His				
465					470					475					480				
Glu	Trp	Ile	Asp	Leu	Ile	Phe	Gly	Tyr	Lys	Gln	Arg	Gly	Pro	Ala	Ala				
			485						490					495					
Glu	Glu	Ala	Leu	Asn	Val	Phe	Tyr	Tyr	Cys	Thr	Tyr	Glu	Gly	Ala	Val				
		500						505					510						
Asp	Leu	Asp	His	Val	Thr	Asp	Glu	Arg	Glu	Arg	Lys	Ala	Leu	Glu	Gly				
		515					520					525							
Ile	Ile	Ser	Asn	Phe	Gly	Gln	Thr	Pro	Cys	Gln	Leu	Leu	Lys	Glu	Pro				
		530				535						540							
His	Pro	Thr	Arg	Leu	Ser	Ala	Glu	Glu	Ala	Ala	His	Arg	Leu	Ala	Arg				
545					550					555					560				
Leu	Asp	Thr	Asn	Ser	Pro	Ser	Ile	Phe	Gln	His	Leu	Asp	Glu	Leu	Lys				
			565						570					575					
Ala	Phe	Phe	Ala	Glu	Val	Val	Ser	Asp	Gly	Val	Pro	Leu	Val	Leu	Ala				
			580					585					590						
Leu	Val	Pro	His	Arg	Gln	Pro	His	Ser	Phe	Ile	Thr	Gln	Gly	Ser	Pro				
		595				600						605							
Asp	Leu	Leu	Val	Thr	Val	Ser	Ala	Ser	Gly	Leu	Leu	Gly	Thr	His	Ser				
		610				615						620							
Trp	Leu	Pro	Tyr	Asp	Arg	Asn	Ile	Ser	Asn	Tyr	Phe	Ser	Phe	Ser	Lys				
625					630					635					640				
Asp	Pro	Thr	Met	Gly	Ser	His	Lys	Thr	Gln	Arg	Leu	Leu	Ser	Gly	Pro				

645										650					655															
Trp	Val	Pro	Gly	Ser	Gly	Val	Ser	Gly	Gln	Ala	Leu	Ala	Val	Ala	Pro															
			660					665						670																
Asp	Gly	Lys	Leu	Leu	Phe	Ser	Gly	Gly	His	Trp	Asp	Gly	Ser	Leu	Arg															
		675					680					685																		
Val	Thr	Ala	Leu	Pro	Arg	Gly	Lys	Leu	Leu	Ser	Gln	Leu	Ser	Cys	His															
		690				695					700																			
Leu	Asp	Val	Val	Thr	Cys	Leu	Ala	Leu	Asp	Thr	Cys	Gly	Ile	Tyr	Leu															
705					710					715					720															
Ile	Ser	Gly	Ser	Arg	Asp	Thr	Thr	Cys	Met	Val	Trp	Arg	Leu	Leu	His															
				725					730					735																
Gln	Gly	Gly	Leu	Ser	Val	Gly	Leu	Ala	Pro	Lys	Pro	Val	Gln	Val	Leu															
			740					745					750																	
Tyr	Gly	His	Gly	Ala	Ala	Val	Ser	Cys	Val	Ala	Ile	Ser	Thr	Glu	Leu															
		755					760					765																		
Asp	Met	Ala	Val	Ser	Gly	Ser	Glu	Asp	Gly	Thr	Val	Ile	Ile	His	Thr															
		770				775					780																			
Val	Arg	Arg	Gly	Gln	Phe	Val	Ala	Ala	Leu	Arg	Pro	Leu	Gly	Ala	Thr															
785					790					795					800															
Phe	Pro	Gly	Pro	Ile	Phe	His	Leu	Ala	Leu	Gly	Ser	Glu	Gly	Gln	Ile															
				805					810					815																
Val	Val	Gln	Ser	Ser	Ala	Trp	Glu	Arg	Pro	Gly	Ala	Gln	Val	Thr	Tyr															
			820					825					830																	
Ser	Leu	His	Leu	Tyr	Ser	Val	Asn	Gly	Lys	Leu	Arg	Ala	Ser	Leu	Pro															
		835					840					845																		
Leu	Ala	Glu	Gln	Pro	Thr	Ala	Leu	Thr	Val	Thr	Glu	Asp	Phe	Val	Leu															
						855					860						</													

<210> 2013
 <211> 57
 <212> PRT
 <213> Homo sapiens

<400> 2013
 Met Trp Trp Glu Asp Leu Met Lys Gly Leu Phe Cys Leu Trp Pro Leu
 1 5 10 15
 Val Arg Ser Val Ser Ser Leu Met Thr Ser Ser Thr Ser Cys Pro Ser
 20 25 30
 Pro Pro Thr Leu Pro Pro Trp Arg Pro Cys Leu Pro Arg Leu Arg Met
 35 40 45
 Arg Val Leu Val Leu Leu Ile Trp Ser
 50 55

<210> 2014
 <211> 57
 <212> PRT
 <213> Homo sapiens

<400> 2014
 Met Trp Trp Glu Asp Leu Met Lys Gly Leu Phe Cys Leu Trp Pro Leu
 1 5 10 15
 Val Arg Ser Val Ser Ser Leu Met Thr Ser Ser Thr Ser Cys Pro Ser
 20 25 30
 Pro Pro Thr Leu Pro Pro Trp Arg Pro Cys Leu Pro Arg Leu Arg Met
 35 40 45
 Arg Val Leu Val Leu Leu Ile Trp Ser
 50 55

<210> 2015
 <211> 75
 <212> PRT
 <213> Homo sapiens

<400> 2015
 Met Asn Leu His Tyr Leu Leu Ala Val Ile Leu Ile Gly Ala Ala Gly
 1 5 10 15
 Val Phe Ala Phe Ile Asp Val Cys Leu Gln Arg Asn His Phe Arg Gly
 20 25 30
 Lys Lys Ala Lys Lys His Met Leu Val Pro Pro Pro Gly Lys Glu Lys
 35 40 45
 Gly Pro Gln Gln Gly Lys Gly Pro Glu Pro Ala Lys Pro Pro Glu Pro
 50 55 60
 Gly Lys Pro Pro Gly Pro Ala Lys Gly Lys Lys

65

70

75

<210> 2016
 <211> 42
 <212> PRT
 <213> Homo sapiens

<400> 2016
 Met Arg Leu Ser Lys Ser Asn Gln Val Gln Leu Phe Leu Tyr Phe Leu
 1 5 10 15
 Leu Gln Trp Ser Leu Gly Ser Val Asn Ala Glu Thr Ser Leu Gln Ile
 20 25 30
 Leu Leu Ala Cys Ser Phe Thr Thr Asp Ser
 35 40

<210> 2017
 <211> 169
 <212> PRT
 <213> Homo sapiens

<400> 2017
 Met Trp Ala Val Leu Arg Leu Ala Leu Arg Pro Cys Ala Arg Ala Ser
 1 5 10 15
 Pro Ala Gly Pro Arg Ala Tyr His Gly Asp Ser Val Ala Ser Leu Gly
 20 25 30
 Thr Gln Pro Asp Leu Gly Ser Ala Leu Tyr Gln Glu Asn Tyr Lys Gln
 35 40 45
 Met Lys Ala Leu Val Asn Gln Leu His Glu Arg Val Glu His Ile Lys
 50 55 60
 Leu Gly Gly Gly Glu Lys Ala Arg Ala Leu His Ile Ser Arg Gly Lys
 65 70 75 80
 Leu Leu Pro Arg Glu Arg Ile Asp Asn Leu Ile Asp Pro Gly Ser Pro
 85 90 95
 Phe Leu Glu Leu Ser Gln Phe Ala Gly Tyr Gln Leu Tyr Asp Asn Glu
 100 105 110
 Glu Val Pro Gly Gly Gly Ile Ile Thr Gly Ile Gly Arg Val Ser Gly
 115 120 125
 Val Glu Cys Met Ile Ile Ala Asn Asp Ala Thr Val Lys Gly Gly Ala
 130 135 140
 Tyr Tyr Pro Val Thr Val Lys Lys Gln Leu Arg Ala Gln Glu Ile Ala
 145 150 155 160
 Met Gln Thr Gly Ser Pro Ala Ser Thr
 165

<210> 2018
 <211> 45
 <212> PRT
 <213> Homo sapiens

<400> 2018
 Met Val Lys His Phe Thr Leu Trp Met Val Cys Leu Ser Leu Val Phe
 1 5 10 15
 Arg Lys Leu Leu Ser Leu Leu Pro Lys Lys Lys Glu Gly Gln Val Asn
 20 25 30
 Phe Phe Asn Gln Lys Lys Ile Thr His Phe Ile Lys Pro
 35 40 45

<210> 2019
 <211> 388
 <212> PRT
 <213> Homo sapiens

<400> 2019
 Met Met Thr Ile Thr Phe Leu Pro Tyr Thr Phe Ser Leu Met Val Thr
 1 5 10 15
 Phe Pro Asp Val Pro Leu Gly Ile Phe Leu Phe Cys Val Cys Val Ile
 20 25 30
 Ala Ile Gly Val Val Gln Ala Leu Ile Val Gly Tyr Ala Phe His Phe
 35 40 45
 Pro His Leu Leu Ser Pro Gln Ile Gln Arg Ser Ala His Arg Ala Leu
 50 55 60
 Tyr Arg Arg His Val Leu Gly Ile Val Leu Gln Gly Pro Ala Leu Cys
 65 70 75 80
 Phe Ala Ala Ala Ile Phe Ser Leu Phe Phe Val Pro Leu Ser Tyr Leu
 85 90 95
 Leu Met Val Thr Val Ile Leu Leu Pro Tyr Val Ser Lys Val Thr Gly
 100 105 110
 Trp Cys Arg Asp Arg Leu Leu Gly His Arg Glu Pro Ser Ala His Pro
 115 120 125
 Val Glu Val Phe Ser Phe Asp Leu His Glu Pro Leu Ser Lys Glu Arg
 130 135 140
 Val Glu Ala Phe Ser Asp Gly Val Tyr Ala Ile Val Ala Thr Leu Leu
 145 150 155 160
 Ile Leu Asp Ile Cys Glu Asp Asn Val Pro Asp Pro Lys Asp Val Lys
 165 170 175
 Glu Arg Phe Ser Gly Ser Leu Val Ala Ala Leu Ser Ala Thr Gly Pro
 180 185 190
 1313

Arg Phe Leu Ala Tyr Phe Gly Ser Phe Ala Thr Val Gly Leu Leu Trp
 195 200 205
 Phe Ala His His Ser Leu Phe Leu His Val Arg Lys Ala Thr Arg Ala
 210 215 220
 Met Gly Leu Leu Asn Thr Leu Ser Leu Ala Phe Val Gly Gly Leu Pro
 225 230 235 240
 Leu Ala Tyr Gln Gln Thr Ser Ala Phe Ala Arg Gln Pro Arg Asp Glu
 245 250 255
 Leu Glu Arg Val Arg Val Ser Cys Thr Ile Ile Phe Leu Ala Ser Ile
 260 265 270
 Phe Gln Leu Ala Met Trp Thr Thr Ala Leu Leu His Gln Ala Glu Thr
 275 280 285
 Leu Gln Pro Ser Val Trp Phe Gly Gly Arg Glu His Val Leu Met Phe
 290 295 300
 Ala Lys Leu Ala Leu Tyr Pro Cys Ala Ser Leu Leu Ala Phe Ala Ser
 305 310 315 320
 Thr Cys Leu Leu Ser Arg Phe Ser Val Gly Ile Phe His Leu Met Gln
 325 330 335
 Ile Ala Val Pro Cys Ala Phe Leu Leu Leu Arg Leu Leu Val Gly Leu
 340 345 350
 Ala Leu Ala Thr Leu Arg Val Leu Arg Gly Leu Ala Arg Pro Glu His
 355 360 365
 Pro Pro Pro Ala Pro Thr Gly Gln Asp Asp Pro Gln Ser Gln Leu Leu
 370 375 380
 Pro Ala Pro Cys
 385

<210> 2020
 <211> 554
 <212> PRT
 <213> Homo sapiens

<400> 2020
 Met Gly Pro Arg Phe Thr Met Leu Leu Ala Met Trp Leu Val Cys Gly
 1 5 10 15
 Ser Glu Pro His Pro His Ala Thr Ile Arg Gly Ser His Gly Gly Arg
 20 25 30
 Lys Val Pro Leu Val Ser Pro Asp Ser Ser Arg Pro Ala Arg Phe Leu
 35 40 45
 Arg His Thr Gly Arg Ser Arg Gly Ile Glu Arg Ser Thr Leu Glu Glu
 50 55 60

Pro Asn Leu Gln Pro Leu Gln Arg Arg Arg Ser Val Pro Val Leu Arg
 65 70 75 80
 Leu Ala Arg Pro Thr Glu Pro Pro Ala Arg Ser Asp Ile Asn Gly Ala
 85 90 95
 Ala Val Arg Pro Glu Gln Arg Pro Ala Ala Arg Gly Ser Pro Arg Glu
 100 105 110
 Met Ile Arg Asp Glu Gly Ser Ser Ala Arg Ser Arg Met Leu Arg Phe
 115 120 125
 Pro Ser Gly Ser Ser Ser Pro Asn Ile Leu Ala Ser Phe Ala Gly Lys
 130 135 140
 Asn Arg Val Trp Val Ile Ser Ala Pro His Ala Ser Glu Gly Tyr Tyr
 145 150 155 160
 Arg Leu Met Met Ser Leu Leu Lys Asp Asp Val Tyr Cys Glu Leu Ala
 165 170 175
 Glu Arg His Ile Gln Gln Ile Val Leu Phe His Gln Ala Gly Glu Glu
 180 185 190
 Gly Gly Lys Val Arg Arg Ile Thr Ser Glu Gly Gln Ile Leu Glu Gln
 195 200 205
 Pro Leu Asp Pro Ser Leu Ile Pro Lys Leu Met Ser Phe Leu Lys Leu
 210 215 220
 Glu Lys Gly Lys Phe Gly Met Val Leu Leu Lys Lys Thr Leu Gln Val
 225 230 235 240
 Glu Glu Arg Tyr Pro Tyr Pro Val Arg Leu Glu Ala Met Tyr Glu Val
 245 250 255
 Ile Asp Gln Gly Pro Ile Arg Arg Ile Glu Lys Ile Arg Gln Lys Gly
 260 265 270
 Phe Val Gln Lys Cys Lys Ala Ser Gly Val Glu Gly Gln Val Val Ala
 275 280 285
 Glu Gly Asn Asp Gly Gly Gly Gly Ala Gly Arg Pro Ser Gln Gly Ser
 290 295 300
 Glu Lys Lys Lys Glu Asp Pro Arg Arg Ala Gln Val Pro Pro Thr Arg
 305 310 315 320
 Glu Ser Arg Val Lys Val Leu Arg Lys Leu Ala Ala Thr Ala Pro Ala
 325 330 335
 Phe Pro Gln Pro Pro Ser Thr Pro Arg Ala Thr Thr Leu Thr Pro Ala
 340 345 350
 Pro Ala Thr Thr Val Thr Arg Ser Thr Ser Arg Ala Gly Asn Arg Cys
 355 360 365
 Cys Lys Thr Tyr Asp His His Trp Leu Ser His His Ala Glu Ala Leu
 370 375 380

Asp Pro Leu Thr Leu Pro Thr Gly Pro Leu Gln Pro Leu Arg Val Ile
 385 390 395 400
 Thr Ala Arg Arg Pro Ser Val Ser Arg Glu Ser Leu Pro Ser Ile Pro
 405 410 415
 Gly Arg Ile Ser Thr Gly Arg Gly His Arg Gln Pro Gly Gly Pro Ala
 420 425 430
 Arg Pro Thr Ser Leu Glu Ser Phe Thr Asn Ala Pro Pro Thr Thr Ile
 435 440 445
 Ser Glu Pro Ser Thr Arg Ala Ala Gly Pro Gly Arg Phe Arg Asp Asn
 450 455 460
 Arg Met Asp Arg Arg Glu His Gly His Arg Asp Pro Asn Val Val Pro
 465 470 475 480
 Gly Pro Pro Lys Pro Ala Lys Glu Lys Pro Pro Lys Lys Lys Ala Gln
 485 490 495
 Asp Lys Ile Leu Ser Asn Glu Tyr Glu Glu Lys Tyr Asp Leu Ser Arg
 500 505 510
 Pro Thr Ala Ser Gln Leu Glu Asp Glu Leu Gln Val Gly Asn Val Pro
 515 520 525
 Leu Lys Lys Ala Lys Glu Ser Lys Lys His Glu Lys Leu Glu Lys Pro
 530 535 540
 Glu Lys Glu Lys Lys Lys Lys Lys Lys Lys
 545 550

<210> 2021

<211> 509

<212> PRT

<213> Homo sapiens

<400> 2021

Met Thr Trp Arg Met Gly Pro Arg Phe Thr Met Leu Leu Ala Met Trp
 1 5 10 15
 Leu Val Cys Gly Ser Glu Pro His Pro His Ala Thr Ile Arg Gly Ser
 20 25 30
 His Gly Gly Arg Lys Val Pro Leu Val Ser Pro Asp Ser Ser Arg Pro
 35 40 45
 Ala Arg Phe Leu Arg His Thr Gly Arg Ser Arg Gly Ile Glu Arg Ser
 50 55 60
 Thr Leu Glu Glu Pro Asn Leu Gln Pro Leu Gln Arg Arg Arg Ser Val
 65 70 75 80
 Pro Val Leu Arg Leu Ala Arg Pro Thr Glu Pro Pro Ala Arg Ser Asp
 85 90 95
 Ile Asn Gly Ala Ala Val Arg Pro Glu Gln Arg Pro Ala Ala Arg Gly

100					105					110					
Ser	Pro	Arg	Glu	Met	Ile	Arg	Asp	Glu	Gly	Ser	Ser	Ala	Arg	Ser	Arg
		115					120					125			
Met	Leu	Arg	Phe	Pro	Ser	Gly	Ser	Ser	Ser	Pro	Asn	Ile	Leu	Ala	Ser
	130					135					140				
Phe	Ala	Gly	Lys	Asn	Arg	Val	Trp	Val	Ile	Ser	Ala	Pro	His	Ala	Ser
145					150					155					160
Glu	Gly	Tyr	Tyr	Arg	Leu	Met	Met	Ser	Leu	Leu	Lys	Asp	Asp	Val	Tyr
				165					170					175	
Cys	Glu	Leu	Ala	Glu	Arg	His	Ile	Gln	Gln	Ile	Val	Leu	Phe	His	Gln
			180					185					190		
Ala	Gly	Glu	Glu	Gly	Gly	Lys	Val	Arg	Arg	Ile	Thr	Ser	Glu	Gly	Gln
		195					200					205			
Ile	Leu	Glu	Gln	Pro	Leu	Asp	Pro	Ser	Leu	Ile	Pro	Lys	Leu	Met	Ser
	210					215					220				
Phe	Leu	Lys	Leu	Glu	Lys	Gly	Lys	Phe	Gly	Met	Val	Leu	Leu	Lys	Lys
225					230					235					240
Thr	Leu	Gln	Val	Glu	Glu	Arg	Tyr	Pro	Tyr	Pro	Val	Arg	Leu	Glu	Ala
				245					250					255	
Met	Tyr	Glu	Val	Ile	Asp	Gln	Gly	Pro	Ile	Arg	Arg	Ile	Glu	Lys	Ile
			260					265					270		
Arg	Gln	Lys	Gly	Phe	Val	Gln	Lys	Cys	Lys	Ala	Ser	Gly	Val	Glu	Gly
		275					280					285			
Gln	Val	Val	Ala	Glu	Gly	Asn	Asp	Gly	Gly	Gly	Gly	Ala	Gly	Arg	Pro
	290					295					300				
Ser	Leu	Gly	Ser	Glu	Lys	Lys	Lys	Glu	Asp	Pro	Arg	Arg	Ala	Gln	Val
305					310					315					320
Pro	Pro	Thr	Arg	Glu	Ser	Arg	Val	Lys	Val	Leu	Arg	Lys	Leu	Ala	Ala
				325					330				335		
Thr	Ala	Pro	Ala	Phe	Pro	Gln	Pro	Pro	Ser	Thr	Pro	Arg	Ala	Thr	Thr
			340					345					350		
Leu	Pro	Pro	Ala	Pro	Ala	Thr	Thr	Val	Thr	Arg	Ser	Thr	Ser	Arg	Ala
		355					360					365			
Val	Thr	Val	Ala	Ala	Arg	Pro	Met	Thr	Thr	Thr	Ala	Phe	Pro	Thr	Thr
	370					375					380				
Gln	Arg	Pro	Trp	Thr	Pro	Ser	Pro	Ser	His	Arg	Pro	Pro	Thr	Thr	Thr
385					390					395					400
Glu	Val	Ile	Thr	Ala	Arg	Arg	Pro	Ser	Val	Ser	Glu	Asn	Leu	Tyr	Pro
				405					410					415	
Pro	Ser	Arg	Lys	Asp	Gln	His	Arg	Glu	Arg	Pro	Gln	Thr	Thr	Arg	Arg


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<210> .2022
<211> 264
<212> PRT
<213> Homo sapiens
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Met	Cys	Leu	Leu	Gly	Ala	Leu	Val	Leu	Gly	Leu	Gly	Val	Leu	Leu	
1				5					10				15		
Phe	Ser	Gly	Gly	Leu	Ser	Glu	Ser	Glu	Thr	Gly	Pro	Met	Glu	Glu	Val
			20					25					30		
Glu	Arg	Gln	Val	Leu	Pro	Asp	Pro	Glu	Val	Leu	Glu	Ala	Val	Gly	Asp
		35					40					45			
Arg	Gln	Asp	Gly	Leu	Arg	Glu	Gln	Leu	Gln	Ala	Pro	Val	Pro	Pro	Asp
	50					55					60				
Ser	Val	Pro	Ser	Leu	Gln	Asn	Met	Gly	Leu	Leu	Leu	Asp	Lys	Leu	Ala
65					70					75					80
Lys	Glu	Asn	Gln	Asp	Ile	Arg	Leu	Leu	Gln	Ala	Gln	Leu	Gln	Ala	Gln
			85						90					95	
Lys	Glu	Glu	Leu	Gln	Ser	Leu	Met	His	Gln	Pro	Lys	Gly	Leu	Glu	Glu
			100					105					110		
Glu	Asn	Ala	Gln	Leu	Arg	Gly	Ala	Leu	Gln	Gln	Gly	Glu	Ala	Phe	Gln
		115					120					125			
Arg	Ala	Leu	Glu	Ser	Glu	Leu	Gln	Gln	Leu	Arg	Ala	Arg	Leu	Gln	Gly
	130					135					140				
Leu	Glu	Ala	Asp	Cys	Val	Arg	Gly	Pro	Asp	Gly	Val	Cys	Leu	Ser	Gly
145					150					155					160
Gly	Arg	Gly	Pro	Gln	Gly	Asp	Lys	Ala	Ile	Arg	Glu	Gln	Gly	Pro	Arg
				165					170					175	
Glu	Gln	Glu	Pro	Glu	Leu	Ser	Phe	Leu	Lys	Gln	Lys	Glu	Gln	Leu	Glu
			180					185					190		

Ala Glu Ala Gln Ala Leu Ser Leu Glu Glu Val Ala Val Gln Gln Thr
 195 200 205

Gly Asp Asp Asp Glu Val Asp Asp Phe Glu Asp Phe Ile Phe Ser His
 210 215 220

Phe Phe Gly Asp Lys Ala Leu Lys Lys Arg Ser Gly Lys Lys Asp Lys
 225 230 235 240

His Ser Gln Ser Pro Arg Ala Ala Gly Pro Arg Glu Gly His Ser His
 245 250 255

Ser His His His His His Arg Gly
 260

<210> 2023
 <211> 123
 <212> PRT
 <213> Homo sapiens

<400> 2023
 Met Leu Cys Leu Ser Ser Val Val Met Phe Leu Pro Gln Pro Gly Ala
 1 5 10 15

Ala Ser Asp Pro Leu Phe Ile Trp Glu Ala Ser Cys His Ser Leu Gly
 20 25 30

Gln Asn Trp Ala Gln Gly Lys Gly Leu Ser Pro Glu Asp Gly Leu Glu
 35 40 45

Gly Leu Gly His Thr Arg Ala Trp Thr Phe Gly Ala Gly Glu Pro Gly
 50 55 60

Leu Arg Leu Leu Asn Val Arg Gly Leu Leu Thr Arg Gly Pro Ser Arg
 65 70 75 80

Gly Ser Leu Cys Pro Leu Leu Trp Ser Asp Gln Ala Leu His Leu Ser
 85 90 95

Ala Gly Pro Leu Trp Gln Arg Ser Pro Val Leu Phe Leu Leu Phe Leu
 100 105 110

Phe Leu Thr Lys Ala Cys Ala Thr Ser Cys Pro
 115 120

<210> 2024
 <211> 57
 <212> PRT
 <213> Homo sapiens

<400> 2024
 Met Asn Cys Val Glu Trp Trp Lys Ser Val Phe Leu Phe Val Val Leu
 1 5 10 15

Leu Phe Val Thr Ser Val Ser Cys Leu Gly Val Val Gly Val Ala Val
 1319

20 25 30
 Glu Gly Ser Leu Gln Ser Cys Ser Phe Tyr Ser Leu Cys Asn Lys Arg
 35 40 45

Leu Glu His Val Lys Gly Ile Phe Lys
 50 55

<210> 2025
 <211> 57
 <212> PRT
 <213> Homo sapiens

<400> 2025
 Met Asn Cys Val Glu Trp Trp Lys Ser Val Phe Leu Phe Val Val Leu
 1 5 10 15

Leu Phe Val Thr Ser Val Ser Cys Leu Gly Val Val Gly Val Ala Val
 20 25 30

Glu Gly Ser Leu Gln Ser Cys Ser Phe Tyr Ser Leu Cys Asn Lys Arg
 35 40 45

Leu Glu His Val Lys Gly Ile Phe Lys
 50 55

<210> 2026
 <211> 92
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (29)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 2026
 Met Glu Ile Arg Thr Arg Val Val Trp Leu Cys Leu Cys Leu Cys Leu
 1 5 10 15

Cys Leu Cys Leu Cys Leu Ser Leu Phe Ser Leu Pro Xaa Ser Leu Ser
 20 25 30

Pro Leu Pro Ser Pro Leu Ser Leu Ser Val Ser Leu Ser Leu Ser Phe
 35 40 45

His Gly Leu Pro Leu Met Pro Ser Arg Ser Trp Thr Val Leu Leu Pro
 50 55 60

Ser Gln Leu Thr Ala Thr Ser Leu Pro Asp Ser Pro Ala Ser Ala Cys
 65 70 75 80

Arg Val Pro Ala Ile Ala Gly Ala Arg His His Ala
 85 90

<210> 2027

<211> 82

<212> PRT

<213> Homo sapiens

<400> 2027

Met Asn Arg Ser Thr Arg Ser Tyr Arg Cys Trp Ala Thr Trp Pro Arg
 1 5 10 15

Leu Gly Trp Ala Leu Pro Cys Cys Met Asn Ser Leu Arg Lys Gly Arg
 20 25 30

Lys Phe Ser Gln Ile Thr Thr Ser Leu Met Ala Ser Val Ser Ser Ala
 35 40 45

Ser Met Val Ser Arg Arg Arg Arg Pro Leu Pro Lys His Pro Val Thr
 50 55 60

Thr Thr Ser Thr Ala Thr Ala Leu Leu Gly Thr Ser Ser Thr Trp Ser
 65 70 75 80

Lys Ser

<210> 2028

<211> 46

<212> PRT

<213> Homo sapiens

<400> 2028

Met Val Thr Ala Ser Leu Leu Leu Leu Pro Ala Val Met Ala Ile Val
 1 5 10 15

Phe Pro Ile Thr Trp Ala Val Gln Ser Gln Ser Trp Ala Ala Glu Phe
 20 25 30

Asn Gly Ala Cys Phe Gln Val Leu His Gly Lys Leu Tyr Ser
 35 40 45

<210> 2029

<211> 176

<212> PRT

<213> Homo sapiens

<400> 2029

Met Ser Arg Gly Asp Asn Cys Thr Asp Leu Leu Ala Leu Gly Ile Pro
 1 5 10 15

Ser Ile Thr Gln Ala Trp Gly Leu Trp Val Leu Leu Gly Ala Val Thr
 20 25 30

Leu Leu Phe Leu Ile Ser Leu Ala Ala His Leu Ser Gln Trp Thr Arg
 35 40 45

Gly Arg Ser Arg Ser His Pro Gly Gln Gly Arg Ser Gly Glu Ser Val

50 55 60
 Glu Glu Val Pro Leu Tyr Gly Asn Leu His Tyr Leu Gln Thr Gly Arg
 65 70 75 80
 Leu Ser Gln Asp Pro Glu Pro Asp Gln Gln Asp Pro Thr Leu Gly Gly
 85 90 95
 Pro Ala Arg Ala Ala Glu Glu Val Met Cys Tyr Thr Ser Leu Gln Leu
 100 105 110
 Arg Pro Pro Gln Gly Arg Ile Pro Gly Pro Gly Thr Pro Val Lys Tyr
 115 120 125
 Ser Glu Val Val Leu Asp Ser Glu Pro Lys Ser Gln Ala Ser Gly Pro
 130 135 140
 Glu Pro Glu Leu Tyr Ala Ser Val Cys Ala Gln Thr Arg Arg Ala Arg
 145 150 155 160
 Ala Ser Phe Pro Asp Gln Ala Tyr Ala Asn Ser Gln Pro Ala Ala Ser
 165 170 175

<210> 2030

<211> 168

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (83)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2030

Met Pro Leu Leu Arg Gly Leu Leu Trp Leu Gln Val Leu Cys Ala Gly
 1 5 10 15
 Pro Leu His Thr Glu Ala Val Val Leu Leu Val Pro Ser Asp Asp Gly
 20 25 30
 Arg Ala Phe Leu Leu Arg Ser Arg Leu Leu His Pro Glu Ala His Val
 35 40 45
 Pro Pro Ala Ala Asp Arg Gly Ala Ser Leu Gln Cys Val Leu His Gln
 50 55 60
 Ala Ala Pro Lys Ser Arg Pro Arg Ser Pro Ala Ala Gly Ala Ala Leu
 65 70 75 80
 Leu His Xaa Pro Arg Arg Thr Gly Asp Glu Pro Cys Arg Glu Phe His
 85 90 95
 Gly Asn Gly Phe Pro Gly Pro Thr Gln Leu Thr Pro Gly Glu Cys Gly
 100 105 110

Leu Pro Ala Pro Ser Ser Leu Leu Gln His Ala Ser Ala Pro Val Arg
 115 120 125
 Thr Gly Ser Glu Gly Gln Val Val Gly Cys Pro Arg Ala Arg Gly Glu
 130 135 140
 Thr Gly Glu Gly Leu Ser Leu Ala Phe Leu Ser Ser Leu Met Phe Thr
 145 150 155 160
 Ser Arg Asn Gly Leu Val Gly Cys
 165

<210> 2031
 <211> 135
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (118)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (121)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 2031
 Met Pro Leu Leu Arg Gly Leu Leu Trp Leu Gln Val Leu Cys Ala Gly
 1 5 10 15
 Pro Leu His Thr Glu Ala Val Val Leu Val Pro Ser Asp Asp Gly
 20 25 30
 Arg Ala Phe Leu Leu Arg Ser Arg Leu Leu His Pro Glu Ala His Val
 35 40 45
 Pro Pro Ala Ala Asp Arg Gly Ala Ser Leu Gln Cys Val Leu His Gln
 50 55 60
 Ala Ala Pro Lys Ser Arg Pro Arg Ser Pro Ala Ala Gly Ala Ala Leu
 65 70 75 80
 Leu His Arg Pro Arg Arg Thr Gly Asp Glu Pro Cys Arg Glu Phe His
 85 90 95
 Gly Asn Gly Phe Pro Gly Pro Thr Gln Leu Thr Pro Gly Glu Cys Gly
 100 105 110
 Leu Pro Ala Pro Ser Xaa Leu Leu Xaa His Ala Ser Ala Pro Val Arg
 115 120 125
 Thr Val Cys Ala Leu Thr Trp
 130 135

<210> 2032

<211> 168
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (39)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 2032

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Met Pro Leu Leu Arg Gly Leu Leu Trp Leu Gln Val Leu Cys Ala Gly
  1              5              10              15

Pro Leu His Thr Glu Ala Val Val Leu Leu Val Pro Ser Asp Asp Gly
              20              25              30

Arg Ala Phe Leu Leu Arg Xaa Arg Leu Leu His Pro Glu Ala His Val
      35              40              45

Pro Pro Ala Ala Asp Arg Gly Ala Ser Leu Gln Cys Val Leu His Gln
  50              55              60

Ala Ala Pro Lys Ser Arg Pro Arg Ser Pro Ala Ala Gly Ala Ala Leu
  65              70              75              80

Leu His Arg Pro Arg Arg Thr Gly Asp Glu Pro Cys Arg Glu Phe His
              85              90              95

Gly Asn Gly Phe Pro Gly Pro Thr Gln Leu Thr Pro Gly Glu Cys Gly
      100              105              110

Leu Pro Ala Pro Ser Ser Leu Leu Gln His Ala Ser Ala Pro Val Arg
      115              120              125

Thr Gly Ser Glu Gly Gln Val Val Gly Cys Pro Arg Ala Arg Gly Glu
  130              135              140

Thr Gly Glu Gly Leu Ser Leu Ala Phe Leu Ser Ser Leu Met Phe Thr
  145              150              155              160

Ser Arg Asn Gly Leu Val Gly Cys
      165
  
```

<210> 2033
 <211> 134
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (39)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 2033

```

Met Pro Leu Leu Arg Gly Leu Leu Trp Leu Gln Val Leu Cys Ala Gly
  1              5              10              15

Pro Leu His Thr Glu Ala Val Val Leu Leu Val Pro Ser Asp Asp Gly
              1324
  
```

20 25 30
 Arg Ala Phe Leu Leu Arg Xaa Gly Phe Phe Ile Arg Arg Arg Met Tyr
 35 40 45
 Pro Pro Pro Leu Ile Glu Glu Pro Ala Phe Asn Val Ser Tyr Thr Arg
 50 55 60
 Gln Pro Pro Asn Pro Gly Pro Gly Ala Gln Gln Pro Gly Pro Pro Tyr
 65 70 75 80
 Tyr Thr Asp Pro Gly Gly Pro Gly Met Asn Pro Val Gly Asn Ser Met
 85 90 95
 Ala Met Ala Phe Gln Val Pro Pro Asn Ser Pro Gln Gly Ser Val Ala
 100 105 110
 Cys Pro Pro Pro Pro Ala Tyr Cys Asn Thr Pro Pro Pro Pro Tyr Glu
 115 120 125
 Gln Val Val Lys Ala Lys
 130

<210> 2034

<211> 168

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (39)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2034

Met Pro Leu Leu Arg Gly Leu Leu Trp Leu Gln Val Leu Cys Ala Gly
 1 5 10 15
 Pro Leu His Thr Glu Ala Val Val Leu Leu Val Pro Ser Asp Asp Gly
 20 25 30
 Arg Ala Phe Leu Leu Arg Xaa Arg Leu Leu His Pro Glu Ala His Val
 35 40 45
 Pro Pro Ala Ala Asp Arg Gly Ala Ser Leu Gln Cys Val Leu His Gln
 50 55 60
 Ala Ala Pro Lys Ser Arg Pro Arg Ser Pro Ala Ala Gly Ala Ala Leu
 65 70 75 80
 Leu His Arg Pro Arg Arg Thr Gly Asp Glu Pro Cys Arg Glu Phe His
 85 90 95
 Gly Asn Gly Phe Pro Gly Pro Thr Gln Leu Thr Pro Gly Glu Cys Gly
 100 105 110
 Leu Pro Ala Pro Ser Ser Leu Leu Gln His Ala Ser Ala Pro Val Arg
 115 120 125

Thr Gly Ser Glu Gly Gln Val Val Gly Cys Pro Arg Ala Arg Gly Glu
130 135 140

Thr Gly Glu Gly Leu Ser Leu Ala Phe Leu Ser Ser Leu Met Phe Thr
145 150 155 160

Ser Arg Asn Gly Leu Val Gly Cys
165

<210> 2035

<211> 134

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (39)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2035

Met Pro Leu Leu Arg Gly Leu Leu Trp Leu Gln Val Leu Cys Ala Gly
1 5 10 15

Pro Leu His Thr Glu Ala Val Val Leu Leu Val Pro Ser Asp Asp Gly
20 25 30

Arg Ala Phe Leu Leu Arg Xaa Gly Phe Phe Ile Arg Arg Arg Met Tyr
35 40 45

Pro Pro Pro Leu Ile Glu Glu Pro Ala Phe Asn Val Ser Tyr Thr Arg
50 55 60

Gln Pro Pro Asn Pro Gly Pro Gly Ala Gln Gln Pro Gly Pro Pro Tyr
65 70 75 80

Tyr Thr Asp Pro Gly Gly Pro Gly Met Asn Pro Val Gly Asn Ser Met
85 90 95

Ala Met Ala Phe Gln Val Pro Pro Asn Ser Pro Gln Gly Ser Val Ala
100 105 110

Cys Pro Pro Pro Pro Ala Tyr Cys Asn Thr Pro Pro Pro Pro Tyr Glu
115 120 125

Gln Val Val Lys Ala Lys.
130

<210> 2036

<211> 468

<212> PRT

<213> Homo sapiens

<400> 2036

Met Gly Arg Gly Trp Gly Phe Leu Phe Gly Leu Leu Gly Ala Val Trp
1 5 10 15

Leu Leu Ser Ser Gly His Gly Glu Glu Gln Pro Pro Glu Thr Ala Ala
 20 25 30
 Gln Arg Cys Phe Cys Gln Val Ser Gly Tyr Leu Asp Asp Cys Thr Cys
 35 40 45
 Asp Val Glu Thr Ile Asp Arg Phe Asn Asn Tyr Arg Leu Phe Pro Arg
 50 55 60
 Leu Gln Lys Leu Leu Glu Ser Asp Tyr Phe Arg Tyr Tyr Lys Val Asn
 65 70 75 80
 Leu Lys Arg Pro Cys Pro Phe Trp Asn Asp Ile Ser Gln Cys Gly Arg
 85 90 95
 Arg Asp Cys Ala Val Lys Pro Cys Gln Ser Asp Glu Val Pro Asp Gly
 100 105 110
 Ile Lys Ser Ala Ser Tyr Lys Tyr Ser Glu Glu Ala Asn Asn Leu Ile
 115 120 125
 Glu Glu Cys Glu Gln Ala Glu Arg Leu Gly Ala Val Asp Glu Ser Leu
 130 135 140
 Ser Glu Glu Thr Gln Lys Ala Val Leu Gln Trp Thr Lys His Asp Asp
 145 150 155 160
 Ser Ser Asp Asn Phe Cys Glu Ala Asp Asp Ile Gln Ser Pro Glu Ala
 165 170 175
 Glu Tyr Val Asp Leu Leu Leu Asn Pro Glu Arg Tyr Thr Gly Tyr Lys
 180 185 190
 Gly Pro Asp Ala Trp Lys Ile Trp Asn Val Ile Tyr Glu Glu Asn Cys
 195 200 205
 Phe Lys Pro Gln Thr Ile Lys Arg Pro Leu Asn Pro Leu Ala Ser Gly
 210 215 220
 Gln Gly Thr Ser Glu Glu Asn Thr Phe Tyr Ser Trp Leu Glu Gly Leu
 225 230 235 240
 Cys Val Glu Lys Arg Ala Phe Tyr Arg Leu Ile Ser Gly Leu His Ala
 245 250 255
 Ser Ile Asn Val His Leu Ser Ala Arg Tyr Leu Leu Gln Glu Thr Trp
 260 265 270
 Leu Glu Lys Lys Trp Gly His Asn Ile Thr Glu Phe Gln Gln Arg Phe
 275 280 285
 Asp Gly Ile Leu Thr Glu Gly Glu Gly Pro Arg Arg Leu Lys Asn Leu
 290 295 300
 Tyr Phe Leu Tyr Leu Ile Glu Leu Arg Ala Leu Ser Lys Val Leu Pro
 305 310 315 320
 Phe Phe Glu Arg Pro Asp Phe Gln Leu Phe Thr Gly Asn Lys Ile Gln
 325 330 335

Asp Glu Glu Asn Lys Met Leu Leu Leu Glu Ile Leu His Glu Ile Lys
 340 345 350
 Ser Phe Pro Leu His Phe Asp Glu Asn Ser Phe Phe Ala Gly Asp Lys
 355 360 365
 Lys Glu Ala His Lys Leu Lys Glu Asp Phe Arg Leu His Phe Arg Asn
 370 375 380
 Ile Ser Arg Ile Met Asp Cys Val Gly Cys Phe Lys Cys Arg Leu Trp
 385 390 395 400
 Gly Lys Leu Gln Thr Gln Gly Leu Gly Thr Ala Leu Lys Ile Leu Phe
 405 410 415
 Ser Glu Lys Leu Ile Ala Asn Met Pro Glu Ser Gly Pro Ser Tyr Glu
 420 425 430
 Phe His Leu Thr Arg Gln Glu Ile Val Ser Leu Phe Asn Ala Phe Gly
 435 440 445
 Arg Ile Ser Thr Ser Val Lys Glu Leu Glu Asn Phe Arg Asn Leu Leu
 450 455 460
 Gln Asn Ile His
 465

<210> 2037

<211> 314

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (227)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2037

Met Leu Leu Ala Gln Gly Leu Ile Leu His Phe Leu Gly Arg Ala Trp
 1 5 10 15
 Thr Trp Pro Asp Ala Leu Asn Ile Glu Asn Ser Asp Ser Glu Ser Trp
 20 25 30
 Thr Ser His Thr Val Lys Lys Phe Thr Ala Ser Phe Glu Ala Ser Leu
 35 40 45
 Ser Gly Glu Arg Glu Phe Lys Thr Pro Thr Ile Ser Leu Lys Glu Thr
 50 55 60
 Ile Gly Lys Tyr Ser Asp Asp His Glu Met Arg Asn Glu Val Tyr His
 65 70 75 80
 Arg Lys Ile Ile Ser Trp Phe Gly Asp Ser Pro Leu Ala Leu Phe Gly
 85 90 95
 Leu His Gln Leu Ile Glu Tyr Gly Lys Lys Ser Gly Lys Lys Ala Gly
 100 105 110

1328

Asp Trp Tyr Gly Pro Ala Val Val Ala His Ile Leu Arg Lys Ala Val
 115 120 125
 Glu Glu Ala Arg His Pro Asp Leu Gln Gly Ile Thr Ile Tyr Val Ala
 130 135 140
 Gln Asp Cys Thr Val Pro Val Arg Leu Gly Gly Glu Arg Thr Asn Thr
 145 150 155 160
 Asp Tyr Leu Glu Phe Val Lys Gly Ile Leu Ser Leu Glu Tyr Cys Val
 165 170 175
 Gly Ile Ile Gly Gly Lys Pro Lys Gln Ser Tyr Tyr Phe Ala Gly Phe
 180 185 190
 Gln Asp Asp Ser Leu Ile Tyr Met Asp Pro His Tyr Cys Gln Ser Phe
 195 200 205
 Val Asp Val Ser Ile Lys Asp Phe Pro Leu Glu Thr Phe His Cys Pro
 210 215 220
 Ser Pro Xaa Lys Met Ser Phe Arg Lys Met Asp Pro Ser Cys Thr Ile
 225 230 235 240
 Gly Phe Tyr Cys Arg Asn Val Gln Asp Phe Lys Arg Ala Ser Glu Glu
 245 250 255
 Ile Thr Lys Met Leu Lys Phe Ser Ser Lys Glu Lys Tyr Pro Leu Phe
 260 265 270
 Thr Phe Val Asn Gly His Ser Arg Asp Tyr Asp Phe Thr Ser Thr Thr
 275 280 285
 Thr Asn Glu Glu Asp Leu Phe Ser Glu Asp Glu Lys Lys Gln Leu Lys
 290 295 300
 Arg Phe Ser Thr Glu Glu Phe Val Leu Leu
 305 310

<210> 2038

<211> 56

<212> PRT

<213> Homo sapiens

<400> 2038

Met Arg Trp Leu Phe Val Leu Met Leu Ser Leu Pro Leu Pro Pro Thr
 1 5 10 15
 Pro Arg Gln Gly Pro Ala Cys Asp Val Pro Leu Pro Val Ser His Val
 20 25 30
 Phe Ser Leu Phe Asn Ser His Leu Gly Ala Arg Thr Cys Gly Val Trp
 35 40 45
 Phe Ser Leu Pro Val Ser Val Cys
 50 55

<210> 2039

<211> 414

<212> PRT

<213> Homo sapiens

<400> 2039

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Met Lys Ala Gln Thr Ala Leu Ser Phe Phe Leu Ile Leu Ile Thr Ser
 1              5              10              15

Leu Ser Gly Ser Gln Gly Ile Phe Pro Leu Ala Phe Phe Ile Tyr Val
      20              25              30

Pro Met Asn Glu Gln Ile Val Ile Gly Arg Leu Asp Glu Asp Ile Ile
      35              40              45

Leu Pro Ser Ser Phe Glu Arg Gly Ser Glu Val Val Ile His Trp Lys
      50              55              60

Tyr Gln Asp Ser Tyr Lys Val His Ser Tyr Tyr Lys Gly Ser Asp His
      65              70              75              80

Leu Glu Ser Gln Asp Pro Arg Tyr Ala Asn Arg Thr Ser Leu Phe Tyr
      85              90              95

Asn Glu Ile Gln Asn Gly Asn Ala Ser Leu Phe Phe Arg Arg Val Ser
      100              105              110

Leu Leu Asp Glu Gly Ile Tyr Thr Cys Tyr Val Gly Thr Ala Ile Gln
      115              120              125

Val Ile Thr Asn Lys Val Val Leu Lys Val Gly Val Phe Leu Thr Pro
      130              135              140

Val Met Lys Tyr Glu Lys Arg Asn Thr Asn Ser Phe Leu Ile Cys Ser
      145              150              155              160

Val Leu Ser Val Tyr Pro Arg Pro Ile Ile Thr Trp Lys Met Asp Asn
      165              170              175

Thr Pro Ile Ser Glu Asn Asn Met Glu Glu Thr Gly Ser Leu Asp Ser
      180              185              190

Phe Ser Ile Asn Ser Pro Leu Asn Ile Thr Gly Ser Asn Ser Ser Tyr
      195              200              205

Glu Cys Thr Ile Glu Asn Ser Leu Leu Lys Gln Thr Trp Thr Gly Arg
      210              215              220

Trp Thr Met Lys Asp Gly Leu His Lys Met Gln Ser Glu His Val Ser
      225              230              235              240

Leu Ser Cys Gln Pro Val Asn Asp Tyr Phe Ser Pro Asn Gln Asp Phe
      245              250              255

Lys Val Thr Trp Ser Arg Met Lys Ser Gly Thr Phe Ser Val Leu Ala
      260              265              270

Tyr Tyr Leu Ser Ser Ser Gln Asn Thr Ile Ile Asn Glu Ser Arg Phe
      1330

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275 280 285
 Ser Trp Asn Lys Glu Leu Ile Asn Gln Ser Asp Phe Ser Met Asn Leu
 290 295 300
 Met Asp Leu Asn Leu Ser Asp Ser Gly Glu Tyr Leu Cys Asn Ile Ser
 305 310 315 320
 Ser Asp Glu Tyr Thr Leu Leu Thr Ile His Thr Val His Val Glu Pro
 325 330 335
 Ser Gln Glu Thr Ala Ser His Asn Lys Gly Leu Trp Ile Leu Val Pro
 340 345 350
 Ser Ala Ile Leu Ala Ala Phe Leu Leu Ile Trp Arg Val Lys Cys Cys
 355 360 365
 Arg Ala Gln Leu Glu Ala Arg Arg Ser Arg His Pro Ala Asp Gly Ala
 370 375 380
 Gln Gln Glu Arg Cys Cys Val Pro Pro Gly Glu Arg Cys Pro Ser Ala
 385 390 395 400
 Pro Asp Asn Gly Glu Glu Asn Val Pro Leu Ser Gly Lys Val
 405 410

<210> 2040
 <211> 200
 <212> PRT
 <213> Homo sapiens

<400> 2040
 Met Ala Ser Ser Leu Thr Cys Thr Gly Val Ile Trp Ala Leu Leu Ser
 1 5 10 15
 Phe Leu Cys Ala Ala Thr Ser Cys Val Gly Phe Phe Met Pro Tyr Trp
 20 25 30
 Leu Trp Gly Ser Gln Leu Gly Lys Pro Val Ser Phe Gly Thr Phe Arg
 35 40 45
 Arg Cys Ser Tyr Pro Val His Asp Glu Ser Arg Gln Met Met Val Met
 50 55 60
 Val Glu Glu Cys Gly Arg Tyr Ala Ser Phe Gln Gly Ile Pro Ser Ala
 65 70 75 80
 Glu Trp Arg Ile Cys Thr Ile Val Thr Gly Leu Gly Cys Gly Leu Leu
 85 90 95
 Leu Leu Val Ala Leu Thr Ala Leu Met Gly Cys Cys Val Ser Asp Leu
 100 105 110
 Ile Ser Arg Thr Val Gly Arg Val Ala Gly Gly Ile Gln Phe Leu Gly
 115 120 125
 Gly Leu Leu Ile Gly Ala Gly Cys Ala Leu Tyr Pro Leu Gly Trp Asp
 130 135 140

Ser Glu Glu Val Arg Gln Thr Cys Gly Tyr Thr Ser Gly Gln Phe Asp
 145 150 155 160

Leu Gly Lys Cys Glu Ile Gly Trp Ala Tyr Tyr Cys Thr Gly Ala Gly
 165 170 175

Ala Thr Ala Ala Met Leu Leu Cys Thr Trp Leu Ala Cys Phe Ser Gly
 180 185 190

Lys Lys Gln Lys His Tyr Pro Tyr
 195 200

<210> 2041
 <211> 249
 <212> PRT
 <213> Homo sapiens

<400> 2041
 Met Ile Gly Met Ser Thr Lys Ala Val Leu Trp Arg Cys Phe Ser Thr
 1 5 10 15

Val Val Ile Phe Leu Phe Leu Leu Asp Glu Gln Thr Ser Leu Leu Val
 20 25 30

Leu Val Pro Ala Gly Val Gly Ala Ala Ile Glu Leu Trp Lys Val Lys
 35 40 45

Lys Ala Leu Lys Met Thr Ile Phe Trp Arg Gly Leu Met Pro Glu Phe
 50 55 60

Gln Phe Gly Thr Tyr Ser Glu Ser Glu Arg Lys Thr Glu Glu Tyr Asp
 65 70 75 80

Thr Gln Ala Met Lys Tyr Leu Ser Tyr Leu Leu Tyr Pro Leu Cys Val
 85 90 95

Gly Gly Ala Val Tyr Ser Leu Leu Asn Ile Lys Tyr Lys Ser Trp Tyr
 100 105 110

Ser Trp Leu Ile Asn Ser Phe Val Asn Gly Val Tyr Ala Phe Gly Phe
 115 120 125

Leu Phe Met Leu Pro Gln Leu Phe Val Asn Tyr Lys Val Arg Arg Cys
 130 135 140

Val Leu Pro Ala Ala Arg Pro Pro Ser Pro Val Leu Pro Thr Ala Asp
 145 150 155 160

Leu Gly Leu Ser Leu Leu Phe Gln Leu Lys Ser Val Ala His Leu Pro
 165 170 175

Trp Lys Ala Phe Thr Tyr Lys Ala Phe Asn Thr Phe Ile Asp Asp Val
 180 185 190

Phe Ala Phe Ile Ile Thr Met Pro Thr Ser His Arg Leu Ala Cys Phe
 195 200 205

Arg Asp Asp Val Val Phe Leu Val Tyr Leu Tyr Gln Arg Trp Leu Tyr
 210 215 220

Pro Val Asp Lys Arg Arg Val Asn Glu Phe Gly Glu Ser Tyr Glu Glu
 225 230 235 240

Lys Ala Thr Arg Ala Pro His Thr Asp
 245

<210> 2042

<211> 249

<212> PRT

<213> Homo sapiens

<400> 2042

Met Ile Gly Met Ser Thr Lys Ala Val Leu Trp Arg Cys Phe Ser Thr
 1 5 10 15

Val Val Ile Phe Leu Phe Leu Leu Asp Glu Gln Thr Ser Leu Leu Val
 20 25 30

Leu Val Pro Ala Gly Val Gly Ala Ala Ile Glu Leu Trp Lys Val Lys
 35 40 45

Lys Ala Leu Lys Met Thr Ile Phe Trp Arg Gly Leu Met Pro Glu Phe
 50 55 60

Gln Phe Gly Thr Tyr Ser Glu Ser Glu Arg Lys Thr Glu Glu Tyr Asp
 65 70 75 80

Thr Gln Ala Met Lys Tyr Leu Ser Tyr Leu Leu Tyr Pro Leu Cys Val
 85 90 95

Gly Gly Ala Val Tyr Ser Leu Leu Asn Ile Lys Tyr Lys Ser Trp Tyr
 100 105 110

Ser Trp Leu Ile Asn Ser Phe Val Asn Gly Val Tyr Ala Phe Gly Phe
 115 120 125

Leu Phe Met Leu Pro Gln Leu Phe Val Asn Tyr Lys Val Arg Arg Cys
 130 135 140

Val Leu Pro Ala Ala Arg Pro Pro Ser Pro Val Leu Pro Thr Ala Asp
 145 150 155 160

Leu Gly Leu Ser Leu Leu Phe Gln Leu Lys Ser Val Ala His Leu Pro
 165 170 175

Trp Lys Ala Phe Thr Tyr Lys Ala Phe Asn Thr Phe Ile Asp Asp Val
 180 185 190

Phe Ala Phe Ile Ile Thr Met Pro Thr Ser His Arg Leu Ala Cys Phe
 195 200 205

Arg Asp Asp Val Val Phe Leu Val Tyr Leu Tyr Gln Arg Trp Leu Tyr
 210 215 220

Pro Val Asp Lys Arg Arg Val Asn Glu Phe Gly Glu Ser Tyr Glu Glu

35					40					45					
Val	Glu	Leu	Ser	Cys	Ile	Ile	Thr	Asp	Ser	Gln	Thr	Ser	Asp	Pro	Arg
50						55					60				
Ile	Glu	Trp	Lys	Lys	Ile	Gln	Asp	Glu	Gln	Thr	Thr	Tyr	Val	Phe	Phe
65					70					75				80	
Asp	Asn	Lys	Ile	Gln	Gly	Asp	Leu	Ala	Gly	Arg	Ala	Glu	Ile	Leu	Gly
				85					90					95	
Lys	Thr	Ser	Leu	Lys	Ile	Trp	Asn	Val	Thr	Arg	Arg	Asp	Ser	Ala	Leu
			100					105					110		
Tyr	Arg	Cys	Glu	Val	Val	Ala	Arg	Asn	Asp	Arg	Lys	Glu	Ile	Asp	Glu
		115					120					125			
Ile	Val	Ile	Glu	Leu	Thr	Val	Gln	Val	Lys	Pro	Val	Thr	Pro	Val	Cys
130						135					140				
Arg	Val	Pro	Lys	Ala	Val	Pro	Val	Gly	Lys	Met	Ala	Thr	Leu	His	Cys
145					150					155					160
Gln	Glu	Ser	Glu	Gly	His	Pro	Arg	Pro	His	Tyr	Ser	Trp	Tyr	Arg	Asn
				165					170					175	
Asp	Val	Pro	Leu	Pro	Thr	Asp	Ser	Arg	Ala	Asn	Pro	Arg	Phe	Arg	Asn
			180					185					190		
Ser	Ser	Phe	His	Leu	Asn	Ser	Glu	Thr	Gly	Thr	Leu	Val	Phe	Thr	Ala
		195					200					205			
Val	His	Lys	Asp	Asp	Ser	Gly	Gln	Tyr	Tyr	Cys	Ile	Ala	Ser	Asn	Asp
210						215					220				
Ala	Gly	Ser	Ala	Arg	Cys	Glu	Glu	Gln	Glu	Met	Glu	Val	Tyr	Asp	Leu
225					230					235					240
Asn	Ile	Gly	Gly	Ile	Ile	Gly	Gly	Val	Leu	Val	Val	Leu	Ala	Val	Leu
				245					250					255	
Ala	Leu	Ile	Thr	Leu	Gly	Ile	Cys	Cys	Ala	Tyr	Arg	Arg	Gly	Tyr	Phe
			260					265					270		
Ile	Asn	Asn	Lys	Gln	Asp	Gly	Glu	Ser	Tyr	Lys	Asn	Pro	Gly	Lys	Pro
		275					280					285			
Asp	Gly	Val	Asn	Tyr	Ile	Arg	Thr	Asp	Glu	Glu	Gly	Asp	Phe	Arg	His
290						295					300				
Lys	Ser	Ser	Phe	Val	Ile										
305					310										

<210> 2046

<211> 310

<212> PRT

<213> Homo sapiens

<400> 2046

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Met Ala Leu Arg Arg Pro Pro Arg Leu Arg Leu Cys Ala Arg Leu Pro
 1              5              10              15

Asp Phe Phe Leu Leu Leu Leu Phe Arg Gly Cys Leu Ile Gly Ala Val
      20              25              30

Asn Leu Lys Ser Ser Asn Arg Thr Pro Val Val Gln Glu Phe Glu Ser
      35              40              45

Val Glu Leu Ser Cys Ile Ile Thr Asp Ser Gln Thr Ser Asp Pro Arg
      50              55              60

Ile Glu Trp Lys Lys Ile Gln Asp Glu Gln Thr Thr Tyr Val Phe Phe
      65              70              75              80

Asp Asn Lys Ile Gln Gly Asp Leu Ala Gly Arg Ala Glu Ile Leu Gly
      85              90              95

Lys Thr Ser Leu Lys Ile Trp Asn Val Thr Arg Arg Asp Ser Ala Leu
      100              105              110

Tyr Arg Cys Glu Val Val Ala Arg Asn Asp Arg Lys Glu Ile Asp Glu
      115              120              125

Ile Val Ile Glu Leu Thr Val Gln Val Lys Pro Val Thr Pro Val Cys
      130              135              140

Arg Val Pro Lys Ala Val Pro Val Gly Lys Met Ala Thr Leu His Cys
      145              150              155              160

Gln Glu Ser Glu Gly His Pro Arg Pro His Tyr Ser Trp Tyr Arg Asn
      165              170              175

Asp Val Pro Leu Pro Thr Asp Ser Arg Ala Asn Pro Arg Phe Arg Asn
      180              185              190

Ser Ser Phe His Leu Asn Ser Glu Thr Gly Thr Leu Val Phe Thr Ala
      195              200              205

Val His Lys Asp Asp Ser Gly Gln Tyr Tyr Cys Ile Ala Ser Asn Asp
      210              215              220

Ala Gly Ser Ala Arg Cys Glu Glu Gln Glu Met Glu Val Tyr Asp Leu
      225              230              235              240

Asn Ile Gly Gly Ile Ile Gly Gly Val Leu Val Val Leu Ala Val Leu
      245              250              255

Ala Leu Ile Thr Leu Gly Ile Cys Cys Ala Tyr Arg Arg Gly Tyr Phe
      260              265              270

Ile Asn Asn Lys Gln Asp Gly Glu Ser Tyr Lys Asn Pro Gly Lys Pro
      275              280              285

Asp Gly Val Asn Tyr Ile Arg Thr Asp Glu Glu Gly Asp Phe Arg His
      290              295              300

Lys Ser Ser Phe Val Ile
      305              310

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<210> 2047

<211> 310

<212> PRT

<213> Homo sapiens

<400> 2047

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Met Ala Leu Arg Arg Pro Pro Arg Leu Arg Leu Cys Ala Arg Leu Pro
 1           5           10           15

Asp Phe Phe Leu Leu Leu Leu Phe Arg Gly Cys Leu Ile Gly Ala Val
      20           25           30

Asn Leu Lys Ser Ser Asn Arg Thr Pro Val Val Gln Glu Phe Glu Ser
      35           40           45

Val Glu Leu Ser Cys Ile Ile Thr Asp Ser Gln Thr Ser Asp Pro Arg
      50           55           60

Ile Glu Trp Lys Lys Ile Gln Asp Glu Gln Thr Thr Tyr Val Phe Phe
      65           70           75           80

Asp Asn Lys Ile Gln Gly Asp Leu Ala Gly Arg Ala Glu Ile Leu Gly
      85           90           95

Lys Thr Ser Leu Lys Ile Trp Asn Val Thr Arg Arg Asp Ser Ala Leu
      100          105          110

Tyr Arg Cys Glu Val Val Ala Arg Asn Asp Arg Lys Glu Ile Asp Glu
      115          120          125

Ile Val Ile Glu Leu Thr Val Gln Val Lys Pro Val Thr Pro Val Cys
      130          135          140

Arg Val Pro Lys Ala Val Pro Val Gly Lys Met Ala Thr Leu His Cys
      145          150          155          160

Gln Glu Ser Glu Gly His Pro Arg Pro His Tyr Ser Trp Tyr Arg Asn
      165          170          175

Asp Val Pro Leu Pro Thr Asp Ser Arg Ala Asn Pro Arg Phe Arg Asn
      180          185          190

Ser Ser Phe His Leu Asn Ser Glu Thr Gly Thr Leu Val Phe Thr Ala
      195          200          205

Val His Lys Asp Asp Ser Gly Gln Tyr Tyr Cys Ile Ala Ser Asn Asp
      210          215          220

Ala Gly Ser Ala Arg Cys Glu Glu Gln Glu Met Glu Val Tyr Asp Leu
      225          230          235          240

Asn Ile Gly Gly Ile Ile Gly Gly Val Leu Val Val Leu Ala Val Leu
      245          250          255

Ala Leu Ile Thr Leu Gly Ile Cys Cys Ala Tyr Arg Arg Gly Tyr Phe
      260          265          270

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Ile Asn Asn Lys Gln Asp Gly Glu Ser Tyr Lys Asn Pro Gly Lys Pro
 275 280 285
 Asp Gly Val Asn Tyr Ile Arg Thr Asp Glu Glu Gly Asp Phe Arg His
 290 295 300
 Lys Ser Ser Phe Val Ile
 305 310

<210> 2048
 <211> 148
 <212> PRT
 <213> Homo sapiens

<400> 2048
 Met His Met Leu Asn Gly Ala Leu Leu Ala Leu Leu Phe Pro Val Val
 1 5 10 15
 Asn Thr Arg Leu Leu Pro Phe Glu Leu Glu Ile Tyr Tyr Ile Gln His
 20 25 30
 Val Met Leu Tyr Val Val Pro Ile Tyr Leu Leu Trp Lys Gly Gly Ala
 35 40 45
 Tyr Thr Pro Glu Pro Leu Ser Ser Phe Arg Trp Ala Leu Leu Ser Thr
 50 55 60
 Gly Leu Met Phe Phe Tyr His Phe Ser Val Leu Gln Ile Leu Gly Leu
 65 70 75 80
 Val Thr Glu Val Asn Leu Asn Asn Met Leu Cys Pro Ala Ile Ser Asp
 85 90 95
 Pro Phe Tyr Gly Pro Trp Tyr Arg Ile Trp Ala Ser Gly His Gln Thr
 100 105 110
 Leu Met Thr Met Thr His Gly Lys Leu Val Ile Leu Phe Ser Tyr Met
 115 120 125
 Ala Gly Pro Leu Cys Lys Tyr Leu Leu Asp Leu Leu Arg Leu Pro Ala
 130 135 140
 Lys Lys Ile Asp
 145

<210> 2049
 <211> 413
 <212> PRT
 <213> Homo sapiens

<400> 2049
 Met Leu Lys Ala Leu Phe Leu Thr Met Leu Thr Leu Ala Leu Val Lys
 1 5 10 15
 Ser Gln Asp Thr Glu Glu Thr Ile Thr Tyr Thr Gln Cys Thr Asp Gly
 20 25 30

Tyr Glu Trp Asp Pro Val Arg Gln Gln Cys Lys Asp Ile Asp Glu Cys
 35 40 45
 Asp Ile Val Pro Asp Ala Cys Lys Gly Gly Met Lys Cys Val Asn His
 50 55 60
 Tyr Gly Gly Tyr Leu Cys Leu Pro Lys Thr Ala Gln Ile Ile Val Asn
 65 70 75 80
 Asn Glu Gln Pro Gln Gln Glu Thr Gln Pro Ala Glu Gly Thr Ser Gly
 85 90 95
 Ala Thr Thr Gly Val Val Ala Ala Ser Ser Met Ala Thr Ser Gly Val
 100 105 110
 Leu Pro Gly Gly Gly Phe Val Ala Ser Ala Ala Ala Val Ala Gly Pro
 115 120 125
 Glu Met Gln Thr Gly Arg Asn Asn Phe Val Ile Arg Arg Asn Pro Ala
 130 135 140
 Asp Pro Gln Arg Ile Pro Ser Asn Pro Ser His Arg Ile Gln Cys Ala
 145 150 155 160
 Ala Gly Tyr Glu Gln Ser Glu His Asn Val Cys Gln Asp Ile Asp Glu
 165 170 175
 Cys Thr Ala Gly Thr His Asn Cys Arg Ala Asp Gln Val Cys Ile Asn
 180 185 190
 Leu Arg Gly Ser Phe Ala Cys Gln Cys Pro Pro Gly Tyr Gln Lys Arg
 195 200 205
 Gly Glu Gln Cys Val Asp Ile Asp Glu Cys Arg Thr Ser Ser Tyr Leu
 210 215 220
 Cys Gln Tyr Gln Cys Val Asn Glu Pro Gly Lys Phe Ser Cys Met Cys
 225 230 235 240
 Pro Gln Gly Tyr Gln Val Val Arg Ser Arg Thr Cys Gln Asp Ile Asn
 245 250 255
 Glu Cys Glu Thr Thr Asn Glu Cys Arg Glu Asp Glu Met Cys Trp Asn
 260 265 270
 Tyr His Gly Gly Phe Arg Cys Tyr Pro Arg Asn Pro Cys Gln Asp Pro
 275 280 285
 Tyr Ile Leu Thr Pro Glu Asn Arg Cys Val Cys Pro Val Ser Asn Ala
 290 295 300
 Met Cys Arg Glu Leu Pro Gln Ser Ile Val Tyr Lys Tyr Met Ser Ile
 305 310 315 320
 Arg Ser Asp Arg Ser Val Pro Ser Asp Ile Phe Gln Ile Gln Ala Thr
 325 330 335
 Thr Ile Tyr Ala Asn Thr Ile Asn Thr Phe Arg Ile Lys Ser Gly Asn
 340 345 350

Glu Asn Gly Glu Phe Tyr Leu Arg Gln Thr Ser Pro Val Ser Ala Met
 355 360 365

Leu Val Leu Val Lys Ser Leu Ser Gly Pro Arg Glu His Ile Val Asp
 370 375 380

Leu Glu Met Leu Thr Val Ser Ser Ile Gly Thr Phe Arg Thr Ser Ser
 385 390 395 400

Val Leu Arg Leu Thr Ile Ile Val Gly Pro Phe Ser Phe
 405 410

<210> 2050

<211> 683

<212> PRT

<213> Homo sapiens

<400> 2050

Met Leu Phe Ile Phe Asn Phe Leu Phe Ser Pro Leu Pro Thr Pro Ala
 1 5 10 15

Leu Ile Cys Ile Leu Thr Phe Gly Ala Ala Ile Phe Leu Trp Leu Ile
 20 25 30

Thr Arg Pro Gln Pro Val Leu Pro Leu Leu Asp Leu Asn Asn Gln Ser
 35 40 45

Val Gly Ile Glu Gly Gly Ala Arg Lys Gly Val Ser Gln Lys Asn Asn
 50 55 60

Asp Leu Thr Ser Cys Cys Phe Ser Asp Ala Lys Thr Met Tyr Glu Val
 65 70 75 80

Phe Gln Arg Gly Leu Ala Val Ser Asp Asn Gly Pro Cys Leu Gly Tyr
 85 90 95

Arg Lys Pro Asn Gln Pro Tyr Arg Trp Leu Ser Tyr Lys Gln Val Ser
 100 105 110

Asp Arg Ala Glu Tyr Leu Gly Ser Cys Leu Leu His Lys Gly Tyr Lys
 115 120 125

Ser Ser Pro Asp Gln Phe Val Gly Ile Phe Ala Gln Asn Arg Pro Glu
 130 135 140

Trp Ile Ile Ser Glu Leu Ala Cys Tyr Thr Tyr Ser Met Val Ala Val
 145 150 155 160

Pro Leu Tyr Asp Thr Leu Gly Pro Glu Ala Ile Val His Ile Val Asn
 165 170 175

Lys Ala Asp Ile Ala Met Val Ile Cys Asp Thr Pro Gln Lys Ala Leu
 180 185 190

Val Leu Ile Gly Asn Val Glu Lys Gly Phe Thr Pro Ser Leu Lys Val
 195 200 205

Ile Ile Leu Met Asp Pro Phe Asp Asp Asp Leu Lys Gln Arg Gly Glu
 210 215 220
 Lys Ser Gly Ile Glu Ile Leu Ser Leu Tyr Asp Ala Glu Asn Leu Gly
 225 230 235 240
 Lys Glu His Phe Arg Lys Pro Val Pro Pro Ser Pro Glu Asp Leu Ser
 245 250 255
 Val Ile Cys Phe Thr Ser Gly Thr Thr Gly Asp Pro Lys Gly Ala Met
 260 265 270
 Ile Thr His Gln Asn Ile Val Ser Asn Ala Ala Ala Phe Leu Lys Cys
 275 280 285
 Val Glu His Ala Tyr Glu Pro Thr Pro Asp Asp Val Ala Ile Ser Tyr
 290 295 300
 Leu Pro Leu Ala His Met Phe Glu Arg Ile Val Gln Ala Val Val Tyr
 305 310 315 320
 Ser Cys Gly Ala Arg Val Gly Phe Phe Gln Gly Asp Ile Arg Leu Leu
 325 330 335
 Ala Asp Asp Met Lys Thr Leu Lys Pro Thr Leu Phe Pro Ala Val Pro
 340 345 350
 Arg Leu Leu Asn Arg Ile Tyr Asp Lys Val Gln Asn Glu Ala Lys Thr
 355 360 365
 Pro Leu Lys Lys Phe Leu Leu Lys Leu Ala Val Ser Ser Lys Phe Lys
 370 375 380
 Glu Leu Gln Lys Gly Ile Ile Arg His Asp Ser Phe Trp Asp Lys Leu
 385 390 395 400
 Ile Phe Ala Lys Ile Gln Asp Ser Leu Gly Gly Arg Val Arg Val Ile
 405 410 415
 Val Thr Gly Ala Ala Pro Met Ser Thr Ser Val Met Thr Phe Phe Arg
 420 425 430
 Ala Ala Met Gly Cys Gln Val Tyr Glu Ala Tyr Gly Gln Thr Glu Cys
 435 440 445
 Thr Gly Gly Cys Thr Phe Thr Leu Pro Gly Asp Trp Thr Ser Gly His
 450 455 460
 Val Gly Val Pro Leu Ala Cys Asn Tyr Val Lys Leu Glu Asp Val Ala
 465 470 475 480
 Asp Met Asn Tyr Phe Thr Val Asn Asn Glu Gly Glu Val Cys Ile Lys
 485 490 495
 Gly Thr Asn Val Phe Lys Gly Tyr Leu Lys Asp Pro Glu Lys Thr Gln
 500 505 510
 Glu Ala Leu Asp Ser Asp Gly Trp Leu His Thr Gly Asp Ile Gly Arg
 515 520 525

Trp Leu Pro Asn Gly Thr Leu Lys Ile Ile Asp Arg Lys Lys Asn Ile
 530 535 540
 Phe Lys Leu Ala Gln Gly Glu Tyr Ile Ala Pro Glu Lys Ile Glu Asn
 545 550 555 560
 Ile Tyr Asn Arg Ser Gln Pro Val Leu Gln Ile Phe Val His Gly Glu
 565 570 575
 Ser Leu Arg Ser Ser Leu Val Gly Val Val Val Pro Asp Thr Asp Val
 580 585 590
 Leu Pro Ser Phe Ala Ala Lys Leu Gly Val Lys Gly Ser Phe Glu Glu
 595 600 605
 Leu Cys Gln Asn Gln Val Val Arg Glu Ala Ile Leu Glu Asp Leu Gln
 610 615 620
 Lys Ile Gly Lys Glu Ser Gly Leu Lys Thr Phe Glu Gln Val Lys Ala
 625 630 635 640
 Ile Phe Leu His Pro Glu Pro Phe Ser Ile Glu Asn Gly Leu Leu Thr
 645 650 655
 Pro Thr Leu Lys Ala Lys Arg Gly Glu Leu Ser Lys Tyr Phe Arg Thr
 660 665 670
 Gln Ile Asp Ser Leu Tyr Glu His Ile Gln Asp
 675 680

<210> 2051

<211> 298

<212> PRT

<213> Homo sapiens

<400> 2051

Met Ala Pro Ser Gly Pro Gly Ser Ser Ala Arg Arg Arg Cys Arg Arg
 1 5 10 15
 Val Leu Tyr Trp Ile Pro Val Val Phe Ile Thr Leu Leu Leu Gly Trp
 20 25 30
 Ser Tyr Tyr Ala Tyr Ala Ile Gln Leu Cys Ile Val Ser Met Glu Asn
 35 40 45
 Thr Gly Glu Gln Val Val Cys Leu Met Ala Tyr His Leu Leu Phe Ala
 50 55 60
 Met Phe Val Trp Ser Tyr Trp Lys Thr Ile Phe Thr Leu Pro Met Asn
 65 70 75 80
 Pro Ser Lys Glu Phe His Leu Ser Tyr Ala Glu Lys Asp Leu Leu Glu
 85 90 95
 Arg Glu Pro Arg Gly Glu Ala His Gln Glu Val Leu Arg Arg Ala Ala
 100 105 110
 Lys Asp Leu Pro Ile Tyr Thr Arg Thr Met Ser Gly Ala Ile Arg Tyr

115					120					125					
Cys	Asp	Arg	Cys	Gln	Leu	Ile	Lys	Pro	Asp	Arg	Cys	His	His	Cys	Ser
130					135					140					
Val	Cys	Asp	Lys	Cys	Ile	Leu	Lys	Met	Asp	His	His	Cys	Pro	Trp	Val
145					150					155					160
Asn	Asn	Cys	Val	Gly	Phe	Ser	Asn	Tyr	Lys	Phe	Phe	Leu	Leu	Phe	Leu
				165					170					175	
Ala	Tyr	Ser	Leu	Leu	Tyr	Cys	Leu	Phe	Ile	Ala	Ala	Thr	Asp	Leu	Gln
			180					185					190		
Tyr	Phe	Ile	Lys	Phe	Trp	Thr	Asn	Gly	Leu	Pro	Asp	Thr	Gln	Ala	Lys
			195				200					205			
Phe	His	Ile	Met	Phe	Leu	Phe	Phe	Ala	Ala	Ala	Met	Phe	Ser	Val	Ser
	210					215					220				
Leu	Ser	Ser	Leu	Phe	Gly	Tyr	His	Cys	Trp	Leu	Val	Ser	Lys	Asn	Lys
225					230					235					240
Ser	Thr	Leu	Glu	Ala	Phe	Arg	Ser	Pro	Val	Phe	Arg	His	Gly	Thr	Asp
				245					250					255	
Lys	Asn	Gly	Phe	Ser	Leu	Gly	Phe	Ser	Lys	Asn	Met	Arg	Gln	Val	Phe
			260					265					270		
Gly	Asp	Glu	Lys	Lys	Tyr	Trp	Leu	Leu	Pro	Ile	Phe	Ser	Ser	Leu	Gly
		275					280					285			
Asp	Gly	Cys	Ser	Phe	Pro	Thr	Leu	Pro	Cys						
	290					295									

<210> 2052

<211> 286

<212> PRT

<213> Homo sapiens

<400> 2052

Met	Ala	Pro	Ser	Gly	Pro	Gly	Ser	Ser	Ala	Arg	Arg	Arg	Cys	Arg	Arg
1				5					10					15	

Val	Leu	Tyr	Trp	Ile	Pro	Val	Val	Phe	Ile	Thr	Leu	Leu	Leu	Gly	Trp
			20					25					30		

Ser	Tyr	Tyr	Ala	Tyr	Ala	Ile	Gln	Leu	Cys	Ile	Val	Ser	Met	Glu	Asn
		35				40						45			

Thr	Gly	Glu	Gln	Val	Val	Cys	Leu	Met	Ala	Tyr	His	Leu	Leu	Phe	Ala
	50					55					60				

Met	Phe	Val	Trp	Ser	Tyr	Trp	Lys	Thr	Ile	Phe	Thr	Leu	Pro	Met	Asn
65					70					75					80

Pro	Ser	Lys	Glu	Phe	His	Leu	Ser	Tyr	Ala	Glu	Lys	Asp	Leu	Leu	Glu
				85					90					95	

Arg Glu Pro Arg Gly Glu Ala His Gln Glu Val Leu Arg Arg Ala Ala
 100 105 110
 Lys Asp Leu Pro Ile Tyr Thr Arg Thr Met Ser Gly Ala Ile Arg Tyr
 115 120 125
 Cys Asp Arg Cys Gln Leu Ile Lys Pro Asp Arg Cys His His Cys Ser
 130 135 140
 Val Cys Asp Lys Cys Ile Leu Lys Met Asp His His Cys Pro Trp Val
 145 150 155 160
 Asn Asn Cys Val Gly Phe Ser Asn Tyr Lys Phe Phe Leu Leu Phe Leu
 165 170 175
 Ala Tyr Ser Leu Leu Tyr Cys Leu Phe Ile Ala Ala Thr Asp Leu Gln
 180 185 190
 Tyr Phe Ile Lys Phe Trp Thr Asn Gly Leu Pro Asp Thr Gln Ala Lys
 195 200 205
 Phe His Ile Met Phe Leu Phe Phe Ala Ala Ala Met Phe Ser Val Ser
 210 215 220
 Leu Ser Ser Leu Phe Gly Tyr His Cys Trp Leu Val Ser Lys Asn Lys
 225 230 235 240
 Ser Thr Leu Glu Ala Phe Arg Ser Pro Val Phe Arg His Gly Thr Asp
 245 250 255
 Lys Asn Gly Phe Ser Leu Gly Phe Ser Lys Asn Met Arg Gln Val Leu
 260 265 270
 Val Met Arg Arg Ser Thr Gly Cys Tyr Pro Phe Phe Gln Val
 275 280 285

<210> 2053

<211> 47

<212> PRT

<213> Homo sapiens

<400> 2053

Met Ser His Gly Ser Gln Pro Phe Leu Leu Leu Leu Ser Leu His Ile
 1 5 10 15
 Leu Ile Leu Ala Gly Ser Phe Leu Leu Phe Ser Pro Tyr Thr Ala Lys
 20 25 30
 Pro Ser Phe Ser Ser Ser Phe Ile Val Phe Pro Arg Ala Glu Met
 35 40 45

<210> 2054

<211> 914

<212> PRT

<213> Homo sapiens

<400> 2054

Met Gly Pro Phe Lys Ser Ser Val Phe Ile Leu Ile Leu His Leu Leu
 1 5 10 15

Glu Gly Ala Leu Ser Asn Ser Leu Ile Gln Leu Asn Asn Asn Gly Tyr
 20 25 30

Glu Gly Ile Val Val Ala Ile Asp Pro Asn Val Pro Glu Asp Glu Thr
 35 40 45

Leu Ile Gln Gln Ile Lys Asp Met Val Thr Gln Ala Ser Leu Tyr Leu
 50 55 60

Phe Glu Ala Thr Gly Lys Arg Phe Tyr Phe Lys Asn Val Ala Ile Leu
 65 70 75 80

Ile Pro Glu Thr Trp Lys Thr Lys Ala Asp Tyr Val Arg Pro Lys Leu
 85 90 95

Glu Thr Tyr Lys Asn Ala Asp Val Leu Val Ala Glu Ser Thr Pro Pro
 100 105 110

Gly Asn Asp Glu Pro Tyr Thr Glu Gln Met Gly Asn Cys Gly Glu Lys
 115 120 125

Gly Glu Arg Ile His Leu Thr Pro Asp Phe Ile Ala Gly Lys Lys Leu
 130 135 140

Ala Glu Tyr Gly Pro Gln Gly Arg Ala Phe Val His Glu Trp Ala His
 145 150 155 160

Leu Arg Trp Gly Val Phe Asp Glu Tyr Asn Asn Asp Glu Lys Phe Tyr
 165 170 175

Leu Ser Asn Gly Arg Ile Gln Ala Val Arg Cys Ser Ala Gly Ile Thr
 180 185 190

Gly Thr Asn Val Val Lys Lys Cys Gln Gly Gly Ser Cys Tyr Thr Lys
 195 200 205

Arg Cys Thr Phe Asn Lys Val Thr Gly Leu Tyr Glu Lys Gly Cys Glu
 210 215 220

Phe Val Leu Gln Ser Arg Gln Thr Glu Lys Ala Ser Ile Met Phe Ala
 225 230 235 240

Gln His Val Asp Ser Ile Val Glu Phe Cys Thr Glu Gln Asn His Asn
 245 250 255

Lys Glu Ala Pro Asn Lys Gln Asn Gln Lys Cys Asn Leu Arg Ser Thr
 260 265 270

Trp Glu Val Ile Arg Asp Ser Glu Asp Phe Lys Lys Thr Thr Pro Met
 275 280 285

Thr Thr Gln Pro Pro Asn Pro Thr Phe Ser Leu Leu Gln Ile Gly Gln
 290 295 300

Arg Ile Val Cys Leu Val Leu Asp Lys Ser Gly Ser Met Ala Thr Gly

1345

305		310		315		320
Asn Arg Leu Asn Arg Leu Asn Gln Ala Gly Gln Leu Phe Leu Leu Gln	325		330		335	
Thr Val Glu Leu Gly Ser Trp Val Gly Met Val Thr Phe Asp Ser Ala	340		345		350	
Ala His Val Gln Ser Glu Leu Ile Gln Ile Asn Ser Gly Ser Asp Arg	355		360		365	
Asp Thr Leu Ala Lys Arg Leu Pro Ala Ala Ala Ser Gly Gly Thr Ser	370		375		380	
Ile Cys Ser Gly Leu Arg Ser Ala Phe Thr Val Ile Arg Lys Lys Tyr	385		390		395	400
Pro Thr Asp Gly Ser Glu Ile Val Leu Leu Thr Asp Gly Glu Asp Asn	405		410		415	
Thr Ile Ser Gly Cys Phe Asn Glu Val Lys Gln Ser Gly Ala Ile Ile	420		425		430	
His Thr Val Ala Leu Gly Pro Ser Ala Ala Gln Glu Leu Glu Glu Leu	435		440		445	
Ser Lys Met Thr Gly Gly Leu Gln Thr Tyr Ala Ser Asp Gln Val Gln	450		455		460	
Asn Asn Gly Leu Ile Asp Ala Phe Gly Ala Leu Ser Ser Gly Asn Gly	465		470		475	480
Ala Val Ser Gln Arg Ser Ile Gln Leu Glu Ser Lys Gly Leu Thr Leu	485		490		495	
Gln Asn Ser Gln Trp Met Asn Gly Thr Val Ile Val Asp Ser Thr Val	500		505		510	
Gly Lys Asp Thr Leu Phe Leu Ile Thr Trp Thr Thr Gln Pro Pro Gln	515		520		525	
Ile Leu Leu Trp Asp Pro Ser Gly Gln Lys Gln Gly Gly Phe Val Val	530		535		540	
Asp Lys Asn Thr Lys Met Ala Tyr Leu Gln Ile Pro Gly Ile Ala Lys	545		550		555	560
Val Gly Thr Trp Lys Tyr Ser Leu Gln Ala Ser Ser Gln Thr Leu Thr	565		570		575	
Leu Thr Val Thr Ser Arg Ala Ser Asn Ala Thr Leu Pro Pro Ile Thr	580		585		590	
Val Thr Ser Lys Thr Asn Lys Asp Thr Ser Lys Phe Pro Ser Pro Leu	595		600		605	
Val Val Tyr Ala Asn Ile Arg Gln Gly Ala Ser Pro Ile Leu Arg Ala	610		615		620	
Ser Val Thr Ala Leu Ile Glu Ser Val Asn Gly Lys Thr Val Thr Leu						

625 630 635 640
 Glu Leu Leu Asp Asn Gly Ala Gly Ala Asp Ala Thr Lys Asp Asp Gly
 645 650 655
 Val Tyr Ser Arg Tyr Phe Thr Thr Tyr Asp Thr Asn Gly Arg Tyr Ser
 660 665 670
 Val Lys Val Arg Ala Leu Gly Gly Val Asn Ala Ala Arg Arg Arg Val
 675 680 685
 Ile Pro Gln Gln Ser Gly Ala Leu Tyr Ile Pro Gly Trp Ile Glu Asn
 690 695 700
 Asp Glu Ile Gln Trp Asn Pro Pro Arg Pro Glu Ile Asn Lys Asp Asp
 705 710 715 720
 Val Gln His Lys Gln Val Cys Phe Ser Arg Thr Ser Ser Gly Gly Ser
 725 730 735
 Phe Val Ala Ser Asp Val Pro Asn Ala Pro Ile Pro Asp Leu Phe Pro
 740 745 750
 Pro Gly Gln Ile Thr Asp Leu Lys Ala Glu Ile His Gly Gly Ser Leu
 755 760 765
 Ile Asn Leu Thr Trp Thr Ala Pro Gly Asp Asp Tyr Asp His Gly Thr
 770 775 780
 Ala His Lys Tyr Ile Ile Arg Ile Ser Thr Ser Ile Leu Asp Leu Arg
 785 790 795 800
 Asp Lys Phe Asn Glu Ser Leu Gln Val Asn Thr Thr Ala Leu Ile Pro
 805 810 815
 Lys Glu Ala Asn Ser Glu Glu Val Phe Leu Phe Lys Pro Glu Asn Ile
 820 825 830
 Thr Phe Glu Asn Gly Thr Asp Leu Phe Ile Ala Ile Gln Ala Val Asp
 835 840 845
 Lys Val Asp Leu Lys Ser Glu Ile Ser Asn Ile Ala Arg Val Ser Leu
 850 855 860
 Phe Ile Pro Pro Gln Thr Pro Pro Glu Thr Pro Ser Pro Asp Glu Thr
 865 870 875 880
 Ser Ala Pro Cys Pro Asn Ile His Ile Asn Ser Thr Ile Pro Gly Ile
 885 890 895
 His Ile Leu Lys Ile Met Trp Lys Trp Ile Gly Glu Leu Gln Leu Ser
 900 905 910
 Ile Ala

<210> 2055

<211> 83

<212> PRT

<213> Homo sapiens

<400> 2055

Met Ala Ser Cys Gly Leu Thr Gly Ala Ser Leu Pro Pro Cys Cys Cys
 1 5 10 15

Ser Ser Phe Leu Ala Ala Leu Lys Ser Met Phe Trp Gly Leu Gly Ser
 20 25 30

Leu Leu Trp Ser Leu Val Gly Ile Leu Ser Pro Ile Ser Ser Cys Phe
 35 40 45

Cys Val Tyr Thr Cys Leu Thr Pro Gly Ser Ser Ser Leu Phe Pro Arg
 50 55 60

Ala Val Thr Gln Lys Leu Glu Gln Ser Val Pro Thr Lys Ala Leu Trp
 65 70 75 80

Gly Trp Met

<210> 2056

<211> 68

<212> PRT

<213> Homo sapiens

<400> 2056

Met Ala Thr Val Gly Leu Ser Trp Lys Lys Glu Leu Val Ile Leu Leu
 1 5 10 15

Val Gly Pro Gly Ala Ala Ala Leu Gln Pro Thr His Thr Cys Cys Ser
 20 25 30

Leu Pro Ser Leu Ser Ser Leu Phe Pro Leu Arg Leu Asn Thr Lys Thr
 35 40 45

Ser Pro Lys Thr Thr Arg Thr Asn Leu Tyr Leu Leu Ser Ile Ala Pro
 50 55 60

Leu Ser His Leu
 65

<210> 2057

<211> 73

<212> PRT

<213> Homo sapiens

<400> 2057

Met Glu Leu Leu Lys Cys Ser Trp Gln Leu Phe Phe Ser Phe Leu Thr
 1 5 10 15

His Cys Ser Ala Ser Thr Ile Val Trp Leu Phe Val Gln His Arg Leu
 20 25 30

Ser Gln Ser His Asn Lys Pro Phe Phe Gly Ile Leu Gln Arg Cys His

35 40 45
 Ser Trp His Leu Asn Arg Glu Ser Phe Val Pro Asn Gln Ser Phe Ser
 50 55 60

Ile Tyr Glu Ser Cys Ser Ile Arg Lys
 65 70

<210> 2058
 <211> 85
 <212> PRT
 <213> Homo sapiens

<400> 2058
 Met Gln Val Phe Phe Leu Ser Glu Ile Gly Met Leu Trp Val Val Val
 1 5 10 15
 Lys Met Ala His Ser Ala Met Leu Val Ser His Thr Gln Asp Pro Thr
 20 25 30
 Pro Ser Arg Trp Pro Cys Ser Leu Ala Gln Ser Ile Leu Leu Thr Cys
 35 40 45
 Ser Pro Gln His Arg Phe Ser Leu Glu Arg Lys Ile Gln Leu Pro Pro
 50 55 60
 Arg Arg Trp Trp Ala Glu Gly Arg Glu Gly Cys Trp Val Arg Glu Arg
 65 70 75 80
 Val Gly Glu Arg Thr
 85

<210> 2059
 <211> 51
 <212> PRT
 <213> Homo sapiens

<400> 2059
 Met Leu Thr Leu Thr His Phe Val Ser Tyr Asp Tyr Phe Ile Val Lys
 1 5 10 15
 Arg Leu Val Gly Trp Leu Val Gly Trp Leu Val Cys Phe Val Leu Val
 20 25 30
 Ser Pro Phe Ile His Ser Leu Ser Thr Asn Tyr Asn Phe Leu Cys Phe
 35 40 45
 Met Cys Gly
 50

<210> 2060
 <211> 354
 <212> PRT
 <213> Homo sapiens

<400> 2060

Met Ala Pro Ala Lys Ala Thr Asn Val Val Arg Leu Leu Leu Gly Ser
 1 5 10 15
 Thr Ala Leu Trp Leu Ser Gln Leu Gly Ser Gly Thr Val Ala Ala Ser
 20 25 30
 Lys Ser Val Thr Ala His Leu Ala Ala Lys Trp Pro Glu Thr Pro Leu
 35 40 45
 Leu Leu Glu Ala Ser Glu Phe Met Ala Glu Glu Ser Asn Glu Lys Phe
 50 55 60
 Trp Gln Phe Leu Glu Thr Val Gln Glu Leu Ala Ile Tyr Lys Gln Thr
 65 70 75 80
 Glu Ser Asp Tyr Ser Tyr Tyr Asn Leu Ile Leu Lys Lys Ala Gly Gln
 85 90 95
 Phe Leu Asp Asn Leu His Ile Asn Leu Leu Lys Phe Ala Phe Ser Ile
 100 105 110
 Arg Ala Tyr Ser Pro Ala Ile Gln Met Phe Gln Gln Ile Ala Ala Asp
 115 120 125
 Glu Pro Pro Pro Asp Gly Cys Asn Ala Phe Val Val Ile His Lys Lys
 130 135 140
 His Thr Cys Lys Ile Asn Glu Ile Lys Lys Leu Leu Lys Lys Ala Ala
 145 150 155 160
 Ser Arg Thr Arg Pro Tyr Leu Phe Lys Gly Asp His Lys Phe Pro Thr
 165 170 175
 Asn Lys Glu Asn Leu Pro Val Val Ile Leu Tyr Ala Glu Met Gly Thr
 180 185 190
 Arg Thr Phe Ser Ala Phe His Lys Val Leu Ser Glu Lys Ala Gln Asn
 195 200 205
 Glu Glu Ile Leu Tyr Val Leu Arg His Tyr Ile Gln Lys Pro Ser Ser
 210 215 220
 Arg Lys Met Tyr Leu Ser Gly Tyr Gly Val Glu Leu Ala Ile Lys Ser
 225 230 235 240
 Thr Glu Tyr Lys Ala Leu Asp Asp Thr Gln Val Lys Thr Val Thr Asn
 245 250 255
 Thr Thr Val Glu Asp Glu Thr Glu Thr Asn Glu Val Gln Gly Phe Leu
 260 265 270
 Phe Gly Lys Leu Lys Glu Ile Tyr Ser Asp Leu Arg Asp Asn Leu Thr
 275 280 285
 Ala Phe Gln Lys Tyr Leu Ile Glu Ser Asn Lys Gln Met Met Pro Leu
 290 295 300
 Lys Val Trp Glu Leu Gln Asp Leu Ser Phe Gln Ala Ala Ser Gln Ile

1350

305 310 315 320

Met Ser Ala Pro Val Tyr Asp Ala Ile Lys Leu Met Lys Asp Ile Ser
 325 330 335

Gln Asn Phe Pro Ile Lys Ala Arg Val Gln Met Ile Gly Asn Val Leu
 340 345 350

Ile Gly

<210> 2061
 <211> 157
 <212> PRT
 <213> Homo sapiens

<400> 2061

Met Gln Ala Pro Arg Ala Ala Leu Val Phe Ala Leu Val Ile Ala Leu
 1 5 10 15

Val Pro Val Gly Arg Gly Asn Tyr Glu Glu Leu Glu Asn Ser Gly Asp
 20 25 30

Thr Thr Val Glu Ser Glu Arg Pro Asn Lys Val Thr Ile Pro Ser Thr
 35 40 45

Phe Ala Ala Val Thr Ile Lys Glu Thr Leu Asn Ala Asn Ile Asn Ser
 50 55 60

Thr Asn Phe Ala Pro Asp Glu Asn Gln Leu Glu Phe Ile Leu Met Val
 65 70 75 80

Leu Ile Pro Leu Ile Leu Leu Val Leu Leu Leu Leu Ser Val Val Phe
 85 90 95

Leu Ala Thr Tyr Tyr Lys Arg Lys Arg Thr Lys Gln Glu Pro Ser Ser
 100 105 110

Gln Gly Ser Gln Ser Ala Leu Gln Thr Cys Glu Tyr Tyr Pro Lys Thr
 115 120 125

Cys Leu Gln Val Gly Val Gly Leu Glu Lys Glu Gln Arg Cys Phe Lys
 130 135 140

Ile Lys Gln Gln Gly Leu His Ile Ile Val Ser Asp Lys
 145 150 155

<210> 2062
 <211> 67
 <212> PRT
 <213> Homo sapiens

<400> 2062

Met Val Leu Gly Phe Val Leu Leu Leu Phe Asn Met Gly Gly Thr Phe
 1 5 10 15

Ser Asp Gly Arg Lys Glu Arg Arg Arg Thr Thr Phe Leu Arg Cys Cys
 20 25 30
 Asp Phe Ile Met Lys Pro Ser Pro Ala Leu Ile Leu Val Thr Ser Val
 35 40 45
 Gly Pro Val Leu Leu Gln Asn Ala Ser Trp Val Ser Val Cys Arg Thr
 50 55 60
 Leu Leu Ser
 65

<210> 2063
 <211> 43
 <212> PRT
 <213> Homo sapiens

<400> 2063
 Met Tyr Phe Phe Phe Phe Leu Thr Phe Leu Ala Leu Trp Val Met Gly
 1 5 10 15
 Thr Thr Ala Met Ala Ser Pro Phe Phe Met Gly Tyr Gln Leu Gln Tyr
 20 25 30
 Gly Pro Gln Cys Cys Ser Gly His Phe Asn Asp
 35 40

<210> 2064
 <211> 57
 <212> PRT
 <213> Homo sapiens

<400> 2064
 Met Cys Glu Gly Trp Leu His Pro Ile Phe Leu Tyr Cys Cys Phe Trp
 1 5 10 15
 Thr Thr Thr Pro Ser Cys Ser Ala Phe Gly Ile Leu Asp Leu His Gln
 20 25 30
 Gln His Pro Ile Pro Thr Pro Ser Ser Trp Phe Ser Gly Leu Cys Pro
 35 40 45
 Trp Thr Glu Leu His His Cys Leu Arg
 50 55

<210> 2065
 <211> 51
 <212> PRT
 <213> Homo sapiens

<400> 2065
 Met Ile Ile Cys Leu Ile Met Phe Tyr Phe Ile Ala Leu Ala Gly Ala
 1 5 10 15

His Lys Arg Val Val Ile Gln Leu Arg Glu Gln Leu Ser Leu Glu Ser
 20 25 30

Arg Asp Lys Cys Tyr Leu Ile Gln Lys Leu Thr Glu Ala Gln Arg Asp
 35 40 45

Met Arg Asn
 50

<210> 2066
 <211> 366
 <212> PRT
 <213> Homo sapiens

<400> 2066
 Met Ala Cys Leu Lys Thr Gln Arg Ala Pro Lys Ala Phe Leu Leu Leu
 1 5 10 15

Pro Leu Leu Leu Tyr Phe Ala Gly Leu Ser Lys Leu Thr Gln Leu Gln
 20 25 30

Val Cys Ser Gly Thr Asp Glu Asp Pro Asp Asp Lys Asn Ala Pro Phe
 35 40 45

Arg Gln Arg Pro Phe Cys Lys Tyr Lys Gly His Thr Ala Asp Leu Leu
 50 55 60

Asp Leu Ser Trp Ser Lys Asn Tyr Phe Leu Leu Ser Ser Ser Met Asp
 65 70 75 80

Lys Thr Val Arg Leu Trp His Ile Ser Arg Arg Glu Cys Leu Cys Cys
 85 90 95

Phe Gln His Ile Asp Phe Val Thr Ala Ile Ala Phe His Pro Arg Asp
 100 105 110

Asp Arg Tyr Phe Leu Ser Gly Ser Leu Asp Gly Lys Leu Arg Leu Trp
 115 120 125

Asn Ile Pro Asp Lys Lys Val Ala Leu Trp Asn Glu Val Asp Gly Gln
 130 135 140

Thr Lys Leu Ile Thr Ala Ala Asn Phe Cys Gln Asn Gly Lys Tyr Ala
 145 150 155 160

Val Ile Gly Thr Tyr Asp Gly Arg Cys Ile Phe Tyr Asp Thr Glu His
 165 170 175

Leu Lys Tyr His Thr Gln Ile His Val Arg Ser Thr Arg Gly Arg Asn
 180 185 190

Lys Val Gly Arg Lys Ile Thr Gly Ile Glu Pro Leu Pro Gly Glu Asn
 195 200 205

Lys Ile Leu Val Thr Ser Asn Asp Ser Arg Ile Arg Leu Tyr Asp Leu
 210 215 220

Arg Asp Leu Ser Leu Ser Met Lys Tyr Lys Gly Tyr Val Asn Ser Ser

225 230 235 240
 Ser Gln Ile Lys Ala Ser Phe Ser His Asp Phe Thr Tyr Leu Val Ser
 245 250 255
 Gly Ser Glu Asp Lys Tyr Val Tyr Ile Trp Ser Thr Tyr His Asp Leu
 260 265 270
 Ser Lys Phe Thr Ser Val Arg Arg Asp Arg Asn Asp Phe Trp Glu Gly
 275 280 285
 Ile Lys Ala His Asn Ala Val Val Thr Ser Ala Ile Phe Ala Pro Asn
 290 295 300
 Pro Ser Leu Met Leu Ser Leu Asp Val Gln Ser Glu Lys Ser Glu Gly
 305 310 315 320
 Asn Glu Lys Ser Glu Asp Ala Glu Val Leu Asp Ala Thr Pro Ser Gly
 325 330 335
 Ile Met Lys Thr Asp Asn Thr Glu Val Leu Leu Ser Ala Asp Phe Thr
 340 345 350
 Gly Ala Ile Lys Val Phe Val Asn Lys Arg Lys Asn Val Ser
 355 360 365

<210> 2067

<211> 187

<212> PRT

<213> Homo sapiens

<400> 2067

Met Val Ala Ala Thr Val Ala Ala Ala Trp Leu Leu Leu Trp Ala Ala
 1 5 10 15
 Ala Cys Ala Gln Gln Glu Gln Asp Phe Tyr Asp Phe Lys Ala Val Asn
 20 25 30
 Ile Arg Gly Lys Leu Val Ser Leu Glu Lys Tyr Arg Gly Ser Val Ser
 35 40 45
 Leu Val Val Asn Val Ala Ser Glu Cys Gly Phe Thr Asp Gln His Tyr
 50 55 60
 Arg Ala Leu Gln Gln Leu Gln Arg Asp Leu Gly Pro His His Phe Asn
 65 70 75 80
 Val Leu Ala Phe Pro Cys Asn Gln Phe Gly Gln Gln Glu Pro Asp Ser
 85 90 95
 Asn Lys Glu Ile Glu Ser Phe Ala Arg Arg Thr Tyr Ser Val Ser Phe
 100 105 110
 Pro Met Phe Ser Lys Ile Ala Val Thr Gly Thr Gly Ala His Pro Ala
 115 120 125
 Phe Lys Tyr Leu Ala Gln Thr Ser Gly Lys Glu Pro Thr Trp Asn Phe
 130 135 140

1354

Trp Lys Tyr Leu Val Ala Pro Asp Gly Lys Val Val Gly Ala Trp Asp
 145 150 155 160

Pro Thr Val Ser Val Glu Glu Val Arg Pro Gln Ile Thr Ala Leu Val
 165 170 175

Arg Lys Leu Ile Leu Leu Lys Arg Glu Asp Leu
 180 185

<210> 2068

<211> 346

<212> PRT

<213> Homo sapiens

<400> 2068

Met Asp Pro Ala Arg Lys Ala Gly Ala Gln Ala Met Ile Trp Thr Ala
 1 5 10 15

Gly Trp Leu Leu Leu Leu Leu Arg Gly Gly Ala Gln Ala Leu Glu
 20 25 30

Cys Tyr Ser Cys Val Gln Lys Ala Asp Asp Gly Cys Ser Pro Asn Lys
 35 40 45

Met Lys Thr Val Lys Cys Ala Pro Gly Val Asp Val Cys Thr Glu Ala
 50 55 60

Val Gly Ala Val Glu Thr Ile His Gly Gln Phe Ser Leu Ala Val Arg
 65 70 75 80

Gly Cys Gly Ser Gly Leu Pro Gly Lys Asn Asp Arg Gly Leu Asp Leu
 85 90 95

His Gly Leu Leu Ala Phe Ile Gln Leu Gln Gln Cys Ala Gln Asp Arg
 100 105 110

Cys Asn Ala Lys Leu Asn Leu Thr Ser Arg Ala Leu Asp Pro Ala Gly
 115 120 125

Asn Glu Ser Ala Tyr Pro Pro Asn Gly Val Glu Cys Tyr Ser Cys Val
 130 135 140

Gly Leu Ser Arg Glu Ala Cys Gln Gly Thr Ser Pro Pro Val Val Ser
 145 150 155 160

Cys Tyr Asn Ala Ser Asp His Val Tyr Lys Gly Cys Phe Asp Gly Asn
 165 170 175

Val Thr Leu Thr Ala Ala Asn Val Thr Val Ser Leu Pro Val Arg Gly
 180 185 190

Cys Val Gln Asp Glu Phe Cys Thr Arg Asp Gly Val Thr Gly Pro Gly
 195 200 205

Phe Thr Leu Ser Gly Ser Cys Cys Gln Gly Ser Arg Cys Asn Ser Asp
 210 215 220

Leu Arg Asn Lys Thr Tyr Phe Ser Pro Arg Ile Pro Pro Leu Val Arg
 225 230 235 240
 Leu Pro Pro Pro Glu Pro Thr Thr Val Ala Ser Thr Thr Ser Val Thr
 245 250 255
 Thr Ser Thr Ser Ala Pro Val Arg Pro Thr Ser Thr Thr Lys Pro Met
 260 265 270
 Pro Ala Pro Thr Ser Gln Thr Pro Arg Gln Gly Val Glu His Glu Ala
 275 280 285
 Ser Arg Asp Glu Glu Pro Arg Leu Thr Gly Gly Ala Ala Gly His Gln
 290 295 300
 Asp Arg Ser Asn Ser Gly Gln Tyr Pro Ala Lys Gly Gly Pro Gln Gln
 305 310 315 320
 Pro His Asn Lys Gly Cys Val Ala Pro Thr Ala Gly Leu Ala Ala Leu
 325 330 335
 Leu Leu Ala Val Ala Ala Gly Val Leu Leu
 340 345

<210> 2069
 <211> 47
 <212> PRT
 <213> Homo sapiens

<400> 2069
 Met Arg Leu Ser Arg Ala Ala His Asn Leu Gln Thr Ile Leu Tyr Ser
 1 5 10 15
 Val Phe Cys Leu Cys Leu His Val Ala Met Met Asp Arg Ser Pro Ser
 20 25 30
 Ser Ile Leu Ala Leu Trp Arg Ser Gly Ser Cys Ser Val Glu Ile
 35 40 45

<210> 2070
 <211> 102
 <212> PRT
 <213> Homo sapiens

<400> 2070
 Met Leu Leu His Trp Leu Leu Gln Asn Glu Leu Gln Ser Ala Val Ala
 1 5 10 15
 Ser Cys Leu Val Ser Ile Ser Leu Gly Lys Glu Asp Phe Leu Gln Thr
 20 25 30
 Gly Cys Lys Val Lys Ser His Val Gly Val Ile His Arg Arg Glu Lys
 35 40 45
 Gly Gly Ala Ile Tyr Leu Pro Asn Ser Leu Val Leu Pro Thr Ser His
 50 55 60

Trp Ile Arg Leu Ser Tyr Arg Asn Arg His Arg Gly Phe Ile Leu Trp
 65 70 75 80

Thr Leu Met Ser Thr Trp Glu Ala Arg Cys His Gly Pro Cys Val Met
 85 90 95

Phe Asp Phe Asn Gln Lys
 100

<210> 2071

<211> 144

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (138)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2071

Met Val Thr Leu Ala Glu Leu Leu Val Leu Leu Ala Ala Leu Leu Ala
 1 5 10 15

Thr Val Ser Gly Tyr Phe Val Ser Ile Asp Ala His Ala Glu Glu Cys
 20 25 30

Phe Phe Glu Arg Val Thr Ser Gly Thr Lys Met Gly Leu Ile Phe Glu
 35 40 45

Val Ala Glu Gly Gly Phe Leu Asp Ile Asp Val Glu Val Arg Ala Ser
 50 55 60

Cys Pro Gln Leu Arg Leu Gly Arg Val Ala Thr Arg Gly Leu Val Ala
 65 70 75 80

Pro Gly Thr Gly Ala Gly Pro Val Trp Gly Val Gly Leu Glu Val Ala
 85 90 95

Val Arg Val Leu Glu Lys Pro Arg Pro Pro Pro Pro Ala Pro Pro Arg
 100 105 110

Pro Arg Arg Pro Pro Asn Gly Pro Phe Ser Arg Asp Leu Pro Gly Phe
 115 120 125

Arg Asp Pro Leu Gly Ala Pro Ser Ala Xaa Leu Val Ala Leu Gly Phe
 130 135 140

<210> 2072

<211> 12

<212> PRT

<213> Homo sapiens

<400> 2072

Met Gly Ser Ser Leu Ala Phe Ile Leu Phe Leu Pro
 1 5 10

<210> 2073

<211> 201

<212> PRT

<213> Homo sapiens

<400> 2073

Met Val Thr Leu Ala Glu Leu Leu Val Leu Leu Ala Ala Leu Leu Ala
 1 5 10 15

Thr Val Ser Gly Tyr Phe Val Ser Ile Asp Ala His Ala Glu Glu Cys
 20 25 30

Phe Phe Glu Arg Val Thr Ser Gly Thr Lys Met Gly Leu Ile Phe Glu
 35 40 45

Val Ala Glu Gly Gly Phe Leu Asp Ile Asp Val Glu Ile Thr Gly Pro
 50 55 60

Asp Asn Lys Gly Ile Tyr Lys Gly Asp Arg Glu Ser Ser Gly Lys Tyr
 65 70 75 80

Thr Phe Ala Ala His Met Asp Gly Thr Tyr Lys Phe Cys Phe Ser Asn
 85 90 95

Arg Met Ser Thr Met Thr Pro Lys Ile Val Met Phe Thr Ile Asp Ile
 100 105 110

Gly Glu Ala Pro Lys Gly Gln Asp Met Glu Thr Glu Ala His Gln Asn
 115 120 125

Lys Leu Glu Glu Met Ile Asn Glu Leu Ala Val Ala Met Thr Ala Val
 130 135 140

Lys His Glu Gln Glu Tyr Met Glu Val Arg Glu Arg Ile His Arg Ala
 145 150 155 160

Ile Asn Asp Asn Thr Asn Ser Arg Val Val Leu Trp Ser Phe Phe Glu
 165 170 175

Ala Leu Val Leu Val Ala Met Thr Leu Gly Gln Ile Tyr Tyr Leu Lys
 180 185 190

Arg Phe Phe Glu Val Arg Arg Val Val
 195 200

<210> 2074

<211> 45

<212> PRT

<213> Homo sapiens

<400> 2074

Met Leu Ser Ala Ser Ile Trp Leu Val Leu Ile Ile Ser Arg Gly Asn

1 5 10 15
 Ala Arg Gln Lys Val Lys Leu Cys Phe Leu Leu Met Leu Leu Ala Thr
 20 25 30
 Trp Lys Arg Arg Arg Gly Arg Gly Lys Arg Gly Arg Ser
 35 40 45

<210> 2075

<211> 201

<212> PRT

<213> Homo sapiens

<400> 2075

Met Val Thr Leu Ala Glu Leu Leu Val Leu Leu Ala Ala Leu Leu Ala
 1 5 10 15
 Thr Val Ser Gly Tyr Phe Val Ser Ile Asp Ala His Ala Glu Glu Cys
 20 25 30
 Phe Phe Glu Arg Val Thr Ser Gly Thr Lys Met Gly Leu Ile Phe Glu
 35 40 45
 Val Ala Glu Gly Gly Phe Leu Asp Ile Asp Val Glu Ile Thr Gly Pro
 50 55 60
 Asp Asn Lys Gly Ile Tyr Lys Gly Asp Arg Glu Ser Ser Gly Lys Tyr
 65 70 75 80
 Thr Phe Ala Ala His Met Asp Gly Thr Tyr Lys Phe Cys Phe Ser Asn
 85 90 95
 Arg Met Ser Thr Met Thr Pro Lys Ile Val Met Phe Thr Ile Asp Ile
 100 105 110
 Gly Glu Ala Pro Lys Gly Gln Asp Met Glu Thr Glu Ala His Gln Asn
 115 120 125
 Lys Leu Glu Glu Met Ile Asn Glu Leu Ala Val Ala Met Thr Ala Val
 130 135 140
 Lys His Glu Gln Glu Tyr Met Glu Val Arg Glu Arg Ile His Arg Ala
 145 150 155 160
 Ile Asn Asp Asn Thr Asn Ser Arg Val Val Leu Trp Ser Phe Phe Glu
 165 170 175
 Ala Leu Val Leu Val Ala Met Thr Leu Gly Gln Ile Tyr Tyr Leu Lys
 180 185 190
 Arg Phe Phe Glu Val Arg Arg Val Val
 195 200

<210> 2076

<211> 201

<212> PRT

<213> Homo sapiens

<400> 2076

```

Met Val Thr Leu Ala Glu Leu Leu Val Leu Leu Ala Ala Leu Leu Ala
  1                      5                      10                      15

Thr Val Ser Gly Tyr Phe Val Ser Ile Asp Ala His Ala Glu Glu Cys
                20                      25                      30

Phe Phe Glu Arg Val Thr Ser Gly Thr Lys Met Gly Leu Ile Phe Glu
      35                      40                      45

Val Ala Glu Gly Gly Phe Leu Asp Ile Asp Val Glu Ile Thr Gly Pro
      50                      55                      60

Asp Asn Lys Gly Ile Tyr Lys Gly Asp Arg Glu Ser Ser Gly Lys Tyr
      65                      70                      75                      80

Thr Phe Ala Ala His Met Asp Gly Thr Tyr Lys Phe Cys Phe Ser Asn
                85                      90                      95

Arg Met Ser Thr Met Thr Pro Lys Ile Val Met Phe Thr Ile Asp Ile
      100                      105                      110

Gly Glu Ala Pro Lys Gly Gln Asp Met Glu Thr Glu Ala His Gln Asn
      115                      120                      125

Lys Leu Glu Glu Met Ile Asn Glu Leu Ala Val Ala Met Thr Ala Val
      130                      135                      140

Lys His Glu Gln Glu Tyr Met Glu Val Arg Glu Arg Ile His Arg Ala
      145                      150                      155                      160

Ile Asn Asp Asn Thr Asn Ser Arg Val Val Leu Trp Ser Phe Phe Glu
                165                      170                      175

Ala Leu Val Leu Val Ala Met Thr Leu Gly Gln Ile Tyr Tyr Leu Lys
      180                      185                      190

Arg Phe Phe Glu Val Arg Arg Val Val
      195                      200

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<210> 2077

<211> 587

<212> PRT

<213> Homo sapiens

<400> 2077

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Met Trp Arg Leu Gly Cys Leu Ile Trp Glu Val Phe Asn Gly Pro Leu
  1                      5                      10                      15

Pro Arg Ala Ala Ala Leu Arg Asn Pro Gly Lys Ile Pro Lys Thr Leu
      20                      25                      30

Val Pro His Tyr Cys Glu Leu Val Gly Ala Asn Pro Lys Val Arg Pro
      35                      40                      45

Asn Pro Ala Arg Phe Leu Gln Asn Cys Arg Ala Pro Gly Gly Phe Met
                1360

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50	55	60
Ser Asn Arg Phe Val Glu Thr Asn Leu Phe Leu Glu Glu Ile Gln Ile 65 70 75 80		
Lys Glu Pro Ala Glu Lys Gln Lys Phe Phe Gln Glu Leu Ser Lys Ser 85 90 95		
Leu Asp Ala Phe Pro Glu Asp Phe Cys Arg His Lys Val Leu Pro Gln 100 105 110		
Leu Leu Thr Ala Phe Glu Phe Gly Asn Ala Gly Ala Val Val Leu Thr 115 120 125		
Pro Leu Phe Lys Val Gly Lys Phe Leu Ser Ala Glu Glu Tyr Gln Gln 130 135 140		
Lys Ile Ile Pro Val Val Val Lys Met Phe Ser Ser Thr Asp Arg Ala 145 150 155 160		
Met Arg Ile Arg Leu Leu Gln Gln Met Glu Gln Phe Ile Gln Tyr Leu 165 170 175		
Asp Glu Pro Thr Val Asn Thr Gln Ile Phe Pro His Val Val His Gly 180 185 190		
Phe Leu Asp Thr Asn Pro Ala Ile Arg Glu Gln Thr Val Lys Ser Met 195 200 205		
Leu Leu Leu Ala Pro Lys Leu Asn Glu Ala Asn Leu Asn Val Glu Leu 210 215 220		
Met Lys His Phe Ala Arg Leu Gln Ala Lys Asp Glu Gln Gly Pro Ile 225 230 235 240		
Arg Cys Asn Thr Thr Val Cys Leu Gly Lys Ile Gly Ser Tyr Leu Ser 245 250 255		
Ala Ser Thr Arg His Arg Val Leu Thr Ser Ala Phe Ser Arg Ala Thr 260 265 270		
Arg Asp Pro Phe Ala Pro Ser Arg Val Ala Gly Val Leu Gly Phe Ala 275 280 285		
Ala Thr His Asn Leu Tyr Ser Met Asn Asp Cys Ala Gln Lys Ile Leu 290 295 300		
Pro Val Leu Cys Gly Leu Thr Val Asp Pro Glu Lys Ser Val Arg Asp 305 310 315 320		
Gln Ala Phe Lys Ala Ile Arg Ser Phe Leu Ser Lys Leu Glu Ser Val 325 330 335		
Ser Glu Asp Pro Thr Gln Leu Glu Glu Val Glu Lys Asp Val His Ala 340 345 350		
Ala Ser Ser Pro Gly Met Gly Gly Ala Ala Ala Ser Trp Ala Gly Trp 355 360 365		
Ala Val Thr Gly Val Ser Ser Leu Thr Ser Lys Leu Ile Arg Ser His		

370 375 380
 Pro Thr Thr Ala Pro Thr Glu Thr Asn Ile Pro Gln Arg Pro Thr Pro
 385 390 395 400
 Glu Gly His Trp Glu Thr Gln Glu Glu Asp Lys Asp Thr Ala Glu Asp
 405 410 415
 Ser Ser Thr Ala Asp Arg Trp Asp Asp Glu Asp Trp Gly Ser Leu Glu
 420 425 430
 Gln Glu Ala Glu Ser Val Leu Ala Gln Gln Asp Asp Trp Ser Thr Gly
 435 440 445
 Gly Gln Val Ser Arg Ala Ser Gln Val Ser Asn Ser Asp His Lys Ser
 450 455 460
 Ser Lys Ser Pro Glu Ser Asp Trp Ser Ser Trp Glu Ala Glu Gly Ser
 465 470 475 480
 Trp Glu Gln Gly Trp Gln Glu Pro Ser Ser Gln Glu Pro Pro Pro Asp
 485 490 495
 Gly Thr Arg Leu Ala Ser Glu Tyr Asn Trp Gly Gly Pro Glu Ser Ser
 500 505 510
 Asp Lys Gly Asp Pro Phe Ala Thr Leu Ser Ala Arg Pro Ser Thr Gln
 515 520 525
 Pro Arg Pro Asp Ser Trp Gly Glu Asp Asn Trp Glu Gly Leu Glu Thr
 530 535 540
 Asp Ser Arg Gln Val Lys Ala Glu Leu Ala Arg Lys Lys Arg Glu Glu
 545 550 555 560
 Arg Arg Arg Glu Met Glu Ala Lys Arg Ala Glu Arg Lys Val Ala Lys
 565 570 575
 Gly Pro Met Lys Leu Gly Ala Arg Lys Leu Asp
 580 585

<210> 2078

<211> 124

<212> PRT

<213> Homo sapiens

<400> 2078

Met Arg Gln Val Ala Pro Ala Arg Arg Ala Gln Leu Glu His Ser Gly
 1 5 10 15
 Leu His Ala Ser Leu Cys Leu Leu Ser Leu Leu Ser Leu Leu Pro Thr
 20 25 30
 Leu Glu Ala Asn Met Ser Gly Phe His Gln Ala Pro Leu Thr Leu Leu
 35 40 45
 Pro Ser Cys Thr Gln Gly Asp Gly Glu Ala Arg Gly His His Thr Gln
 50 55 60

Pro Ser Phe Trp Arg Thr Glu Met Lys Cys Pro Val Glu Ala Leu Leu
 65 70 75 80

Glu His Leu Ala Thr Arg Ala Val Val Gly Arg Asn Gly Asp His Gly
 85 90 95

Ala Gln Gln Glu His Arg Thr Ala Ser Glu Gly Gln Gln Gln Pro Leu
 100 105 110

Ala Glu Ser Ser Pro Trp Trp Gln Pro Pro His Gly
 115 120

<210> 2079
 <211> 74
 <212> PRT
 <213> Homo sapiens

<400> 2079
 Met Ala Leu Phe Ala Trp Leu Cys Leu Ser Ala Val Val Glu Ser Ser
 1 5 10 15

Ser Pro Gly Met Cys Met Ser Lys Cys Val Leu Ile Val Met Pro Arg
 20 25 30

Gln Lys Pro Leu Glu Asp Cys Cys Arg His Ala Leu Lys Met Thr Ser
 35 40 45

His Ser Ser Glu Lys Leu Gly Asp Leu Thr Pro Glu Gly Leu Lys Ser
 50 55 60

Glu Lys Ser Gln Glu His Leu Gly Phe Lys
 65 70

<210> 2080
 <211> 76
 <212> PRT
 <213> Homo sapiens

<400> 2080
 Met Val Val Asp Leu Phe Phe Tyr Leu Leu Cys Ile Phe Leu Val Leu
 1 5 10 15

Trp Val Leu Glu Ala Met Ile Lys His Leu Met Tyr Ser Asp Met Ser
 20 25 30

Ala Leu Ile Ala Ser Phe Ser Ser Phe Leu Asn Cys Ile His Tyr Phe
 35 40 45

Gln Asn Arg Tyr Arg Tyr Ser Val Pro Pro Phe Glu Leu Leu Ala Cys
 50 55 60

Ser Cys Phe Pro Leu Ser Pro Lys Gln Gly Phe Phe
 65 70 75

<210> 2081
 <211> 146
 <212> PRT
 <213> Homo sapiens

<400> 2081
 Met Ala Ala Leu Leu Leu Leu Pro Leu Leu Leu Leu Pro Leu Leu
 1 5 10 15
 Leu Leu Lys Leu His Leu Trp Pro Gln Leu Arg Trp Leu Pro Ala Ala
 20 25 30
 Thr Ala Ala Arg Gly Ala Leu Glu Lys Ala Ser Gly Gln Arg Arg Glu
 35 40 45
 Pro Glu Met Gln Arg Pro Glu Ala Ala Arg Ser Leu Pro Glu Gly Thr
 50 55 60
 Val Pro Pro Glu Val Glu Glu Pro Pro Pro Leu Cys His Leu Glu Gln
 65 70 75 80
 Leu Trp Arg Cys Ser Ser Pro Leu Ala Gln Ser Phe Cys Gly Ser Gly
 85 90 95
 Ser Gly Trp Pro Arg Pro Ala Cys Ala Leu Pro Leu Cys Pro Pro Pro
 100 105 110
 Cys Ala Gly Ala Pro Cys Cys Thr Ala Ser Ala Ala Ala Ala Arg Ala
 115 120 125
 Arg Trp Cys Trp Arg Gln Ser Phe Trp Ser Pro Trp Ser Arg Thr Cys
 130 135 140
 Pro Pro
 145

<210> 2082
 <211> 30
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (28)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 2082
 Met Arg Leu Phe Ser Gln Met Leu Lys Ser Trp Met Ala Leu Phe Met
 1 5 10 15
 Arg Asn Val Trp Leu Glu Met Thr Ile Ala Thr Xaa Ile Gln
 20 25 30

<210> 2083
 <211> 56

<212> PRT

<213> Homo sapiens

<400> 2083

Met Arg Leu Phe Ser Gln Met Leu Lys Ser Trp Met Ala Leu Phe Met
 1 5 10 15
 Arg Asn Val Trp Leu Glu Met Thr Ile Ala Thr Ala His Thr Val Ser
 20 25 30
 Thr Val His Trp Arg Lys Trp Thr Lys Met Leu Val Gln Ser Pro Thr
 35 40 45
 Gln Val Lys Met Asn Val Ser Gln
 50 55

<210> 2084

<211> 563

<212> PRT

<213> Homo sapiens

<400> 2084

Met Gly Ser Leu Ser Asn Tyr Ala Leu Leu Gln Leu Thr Leu Thr Ala
 1 5 10 15
 Phe Leu Thr Ile Leu Val Gln Pro Gln His Leu Leu Ala Pro Val Phe
 20 25 30
 Arg Thr Leu Ser Ile Leu Thr Asn Gln Ser Asn Cys Trp Leu Cys Glu
 35 40 45
 His Leu Asp Asn Ala Glu Gln Pro Glu Leu Val Phe Val Pro Ala Ser
 50 55 60
 Ala Ser Thr Trp Trp Thr Tyr Ser Gly Gln Trp Met Tyr Glu Arg Val
 65 70 75 80
 Trp Tyr Pro Gln Ala Glu Val Gln Asn His Ser Thr Ser Ser Tyr Arg
 85 90 95
 Lys Val Thr Trp His Trp Glu Ala Ser Met Glu Ala Gln Gly Leu Ser
 100 105 110
 Phe Ala Gln Val Arg Leu Leu Glu Gly Asn Phe Ser Leu Cys Val Glu
 115 120 125
 Asn Lys Asn Gly Ser Gly Pro Phe Leu Gly Asn Ile Pro Lys Gln Tyr
 130 135 140
 Cys Asn Gln Ile Leu Trp Phe Asp Ser Thr Asp Gly Thr Phe Met Pro
 145 150 155 160
 Ser Ile Asp Val Thr Asn Glu Ser Arg Asn Asp Asp Asp Asp Pro Ser
 165 170 175
 Val Cys Leu Gly Thr Arg Gln Cys Ser Trp Phe Ala Gly Cys Thr Asn
 180 185 190

Arg Thr Trp Asn Ser Ser Ala Val Pro Leu Ile Gly Leu Pro Asn Thr
 195 200 205
 Gln Asp Tyr Lys Trp Val Asp Arg Asn Ser Gly Leu Thr Trp Ser Gly
 210 215 220
 Asn Asp Thr Cys Leu Tyr Ser Cys Gln Asn Gln Thr Lys Gly Leu Leu
 225 230 235 240
 Tyr Gln Leu Phe Arg Asn Leu Phe Cys Ser Tyr Gly Leu Thr Glu Ala
 245 250 255
 His Gly Lys Trp Arg Cys Ala Asp Ala Ser Ile Thr Asn Asp Lys Gly
 260 265 270
 His Asp Gly His Arg Thr Pro Thr Trp Trp Leu Thr Gly Ser Asn Leu
 275 280 285
 Thr Leu Ser Val Asn Asn Ser Gly Leu Phe Phe Leu Cys Gly Asn Gly
 290 295 300
 Val Tyr Lys Gly Phe Pro Pro Lys Trp Ser Gly Arg Cys Gly Leu Gly
 305 310 315 320
 Tyr Leu Val Pro Ser Leu Thr Arg Tyr Leu Thr Leu Asn Ala Ser Gln
 325 330 335
 Ile Thr Asn Leu Arg Ser Phe Ile His Lys Val Thr Pro His Arg Cys
 340 345 350
 Thr Gln Gly Asp Thr Asp Asn Pro Pro Leu Tyr Cys Asn Pro Lys Asp
 355 360 365
 Asn Ser Thr Ile Arg Ala Leu Phe Pro Ser Leu Gly Thr Tyr Asp Leu
 370 375 380
 Glu Lys Ala Ile Leu Asn Ile Ser Lys Ala Met Glu Gln Glu Phe Ser
 385 390 395 400
 Ala Thr Lys Gln Thr Leu Glu Ala His Gln Ser Lys Val Ser Ser Leu
 405 410 415
 Ala Ser Ala Ser Arg Lys Asp His Val Leu Asp Ile Pro Thr Thr Gln
 420 425 430
 Arg Gln Thr Ala Cys Gly Thr Val Gly Lys Gln Cys Cys Leu Tyr Ile
 435 440 445
 Asn Tyr Ser Glu Glu Ile Lys Ser Asn Ile Gln Arg Leu His Glu Ala
 450 455 460
 Ser Glu Asn Leu Lys Asn Val Pro Leu Leu Asp Trp Gln Gly Ile Phe
 465 470 475 480
 Ala Lys Val Gly Asp Trp Phe Arg Ser Trp Gly Tyr Val Leu Leu Ile
 485 490 495
 Val Leu Phe Cys Leu Phe Ile Phe Val Leu Ile Tyr Val Arg Val Phe
 500 505 510

Arg Lys Ser Arg Arg Ser Leu Asn Ser Gln Pro Leu Asn Leu Ala Leu
 515 520 525

Ser Pro Gln Gln Ser Ala Gln Leu Leu Val Ser Glu Thr Ser Cys Gln
 530 535 540

Val Ser Asn Arg Ala Met Lys Gly Leu Thr Thr His Gln Tyr Asp Thr
 545 550 555 560

Ser Leu Leu

<210> 2085
 <211> 599
 <212> PRT
 <213> Homo sapiens

<400> 2085
 Met Glu Leu Leu Gly Pro Val Pro Pro Glu Gln Gln Phe Ile Asn Gln
 1 5 10 15

Lys Met Arg Pro Gly Ser Gly Met Leu Ser Ile Arg Val Ile Pro Asp
 20 25 30

Gly Pro Thr Arg Ala Leu Gln Ile Thr Asp Phe Cys His Arg Lys Ser
 35 40 45

Ser Arg Ser Tyr Glu Val Asp Glu Leu Pro Val Thr Glu Gln Glu Leu
 50 55 60

Gln Lys Leu Lys Asn Pro Asp Thr Glu Gln Glu Leu Glu Val Leu Val
 65 70 75 80

Arg Leu Glu Gly Gly Ile Gly Leu Ser Leu Ile Asn Lys Val Pro Glu
 85 90 95

Glu Leu Val Phe Ala Ser Leu Thr Gly Ile Asn Val His Tyr Thr Gln
 100 105 110

Leu Ala Thr Ser His Met Leu Glu Leu Ser Ile Gln Asp Val Gln Val
 115 120 125

Asp Asn Gln Leu Ile Gly Thr Thr Gln Pro Phe Met Leu Tyr Val Thr
 130 135 140

Pro Leu Ser Asn Glu Asn Glu Val Ile Glu Thr Gly Pro Ala Val Gln
 145 150 155 160

Val Asn Ala Val Lys Phe Pro Ser Lys Ser Ala Leu Thr Asn Ile Tyr
 165 170 175

Lys His Leu Met Ile Thr Ala Gln Arg Phe Thr Val Gln Ile Glu Glu
 180 185 190

Lys Leu Leu Leu Lys Leu Leu Ser Phe Phe Gly Tyr Asp Gln Ala Glu
 195 200 205

Ser Glu Val Glu Lys Tyr Asp Glu Asn Leu His Glu Lys Thr Ala Glu

210	215	220
Gln Gly Gly Thr Pro Ile Arg Tyr Tyr Phe Glu Asn Leu Lys Ile Ser 225 230 235 240		
Ile Pro Gln Ile Lys Leu Ser Val Phe Thr Ser Asn Lys Leu Pro Leu 245 250 255		
Asp Leu Lys Ala Leu Lys Ser Thr Leu Gly Phe Pro Leu Ile Arg Phe 260 265 270		
Glu Asp Ala Val Ile Asn Leu Asp Pro Phe Thr Arg Val His Pro Tyr 275 280 285		
Glu Thr Lys Glu Phe Ile Ile Asn Asp Ile Leu Lys His Phe Gln Glu 290 295 300		
Glu Leu Leu Ser Gln Ala Ala Arg Ile Leu Gly Ser Val Asp Phe Leu 305 310 315 320		
Gly Asn Pro Met Gly Leu Leu Asn Asp Val Ser Glu Gly Val Thr Gly 325 330 335		
Leu Ile Lys Tyr Gly Asn Val Gly Gly Leu Ile Arg Asn Val Thr His 340 345 350		
Gly Val Ser Asn Ser Ala Gly Lys Phe Ala Gly Thr Leu Ser Asp Gly 355 360 365		
Leu Gly Lys Thr Met Asp Asn Arg His Gln Ser Glu Arg Glu Tyr Ile 370 375 380		
Arg Tyr His Ala Ala Thr Ser Gly Glu His Leu Val Ala Gly Ile His 385 390 395 400		
Gly Leu Ala His Gly Ile Ile Gly Gly Leu Thr Ser Val Ile Thr Ser 405 410 415		
Thr Val Glu Gly Val Lys Thr Glu Gly Gly Val Ser Gly Phe Ile Ser 420 425 430		
Gly Leu Gly Lys Gly Leu Val Gly Thr Val Thr Lys Pro Val Ala Gly 435 440 445		
Ala Leu Asp Phe Ala Ser Glu Thr Ala Gln Ala Val Arg Asp Thr Ala 450 455 460		
Thr Leu Ser Gly Pro Arg Thr Gln Ala Gln Arg Val Arg Lys Pro Arg 465 470 475 480		
Cys Cys Thr Gly Pro Gln Gly Leu Leu Pro Arg Tyr Ser Glu Ser Gln 485 490 495		
Ala Glu Gly Gln Glu Gln Leu Phe Lys Leu Thr Asp Asn Ile Gln Asp 500 505 510		
Glu Phe Phe Ile Ala Val Glu Asn Ile Asp Ser Tyr Cys Val Leu Ile 515 520 525		
Ser Ser Lys Ala Val Tyr Phe Leu Lys Ser Gly Asp Tyr Val Asp Arg		

530 535 540
 Glu Ala Ile Phe Leu Glu Val Lys Tyr Asp Asp Leu Leu Pro Leu Pro
 545 550 555 560
 Cys Leu Gln Arg Pro Trp Glu Gly Val Cys Ala Gly Asp Gln Glu Ser
 565 570 575
 Arg Glu His Glu Gln Trp Ser Val His Pro Arg Pro Leu Pro Pro Glu
 580 585 590
 Ala His Gly Pro Cys Glu Ile
 595

<210> 2086
 <211> 239
 <212> PRT
 <213> Homo sapiens

<400> 2086
 Met Ala Pro Leu Leu Pro Ser Leu Pro Leu His Leu His Thr Ser Leu
 1 5 10 15
 Cys Leu Arg Leu Cys Leu Ser Leu Ser Leu Ser Ala Trp Leu Ser Trp
 20 25 30
 Ser Leu Pro Leu Cys Val Ser Leu Ser Ala Ser Tyr Pro Ala Trp Arg
 35 40 45
 Leu Leu Pro Gln Leu His Gly Arg Ser Arg Glu Gln Arg Tyr Thr Lys
 50 55 60
 Leu Ala Asp Trp Gln Tyr Ile Glu Glu Cys Val Gln Ala Ala Ser Pro
 65 70 75 80
 Met Pro Leu Phe Gly Asn Gly Asp Ile Leu Ser Phe Glu Asp Ala Asn
 85 90 95
 Arg Ala Met Gln Thr Gly Val Thr Gly Ile Met Ile Ala Arg Gly Ala
 100 105 110
 Leu Leu Lys Pro Trp Leu Phe Thr Glu Ile Lys Glu Gln Arg His Trp
 115 120 125
 Asp Ile Ser Ser Ser Glu Arg Leu Asp Ile Leu Arg Asp Phe Thr Asn
 130 135 140
 Tyr Gly Leu Glu His Trp Gly Ser Asp Thr Gln Gly Val Glu Lys Thr
 145 150 155 160
 Arg Arg Phe Leu Leu Glu Trp Leu Ser Phe Leu Cys Arg Tyr Val Pro
 165 170 175
 Val Gly Leu Leu Glu Arg Leu Pro Gln Arg Ile Asn Glu Arg Pro Pro
 180 185 190
 Tyr Tyr Leu Gly Arg Asp Tyr Leu Glu Thr Leu Met Ala Ser Gln Lys
 195 200 205

Ala Ala Asp Trp Ile Arg Ile Ser Glu Met Leu Leu Gly Pro Val Pro
 210 215 220

Pro Ser Phe Ala Phe Leu Pro Lys His Lys Ala Asn Ala Tyr Lys
 225 230 235

<210> 2087

<211> 127

<212> PRT

<213> Homo sapiens

<400> 2087

Met Ala Gln Tyr Ile Leu Val Ile Ile Leu Ile Ser Phe Cys Ser Asp
 1 5 10 15

Ser Leu Ser Gly Arg Ala Gln Asn Gly Thr Glu Ile Asn Gln Thr Val
 20 25 30

Ile Leu Ile Cys Ser Leu Arg Phe Phe Lys Ser Glu Ala Ile Asp Ala
 35 40 45

Cys Leu Met His Pro His Thr Ala Cys Leu Thr Gly Asp Ala Thr Leu
 50 55 60

Leu Ser Ser Ser Ala Met Lys His Lys Arg Gln Arg Lys Ser Arg Tyr
 65 70 75 80

Thr Ser His Arg Glu His Phe Arg Val Pro Gln Arg Trp Trp Gln Glu
 85 90 95

Ala His Ser Arg Val Ser Ile Arg Val Cys Val Trp Val Ser Gly Ile
 100 105 110

Ser Val Ala Pro Ile Phe Leu His Cys Ser Glu His Pro Val Leu
 115 120 125

<210> 2088

<211> 138

<212> PRT

<213> Homo sapiens

<400> 2088

Met Lys Met Met Val Val Leu Leu Met Leu Ser Ser Leu Ser Arg Leu
 1 5 10 15

Leu Gly Leu Met Arg Pro Ser Ser Leu Arg Gln Tyr Leu Asp Ser Val
 20 25 30

Pro Leu Pro Pro Cys Gln Glu Gln Gln Pro Lys Ala Ser Ala Glu Leu
 35 40 45

Asp His Lys Ala Cys Tyr Leu Cys His Ser Leu Leu Met Leu Ala Gly
 50 55 60

Val Val Val Ser Cys Gln Asp Ile Thr Pro Asp Gln Trp Gly Glu Leu

65		70		75		80
Gln Leu Leu Cys Met	Gln Leu Asp Arg	His Ile Ser Thr	Gln Ile Arg			
	85		90		95	
Glu Ser Pro Gln Ala Met	His Arg Thr Met	Leu Lys Asp	Leu Ala Thr			
	100	105	110			
Gln Thr Tyr Ile Arg Trp	Gln Glu Leu Leu Thr	His Cys Gln Pro	Gln			
	115	120	125			
Ala Gln Tyr Phe Ser Pro	Trp Lys Asp Ile					
	130	135				

<210> 2089

<211> 132

<212> PRT

<213> Homo sapiens

<400> 2089

Met Glu Ile Tyr Leu Ser	Leu Gly Val Leu Ala Leu Gly	Thr Leu Ser
1	5	10 15
Leu Leu Ala Val Thr Ser	Leu Pro Ser Ile Ala Asn Ser	Leu Asn Trp
	20	25 30
Arg Glu Phe Ser Phe Val	Gln Ser Ser Leu Gly Phe Val	Ala Leu Val
	35	40 45
Leu Ser Thr Leu His Thr	Leu Thr Tyr Gly Trp Thr	Arg Ala Phe Glu
	50	55 60
Glu Ser Arg Tyr Lys Phe	Tyr Leu Pro Pro Thr Phe Thr	Leu Thr Leu
	65	70 75 80
Leu Val Pro Cys Val Val	Ile Leu Ala Lys Ala Leu Phe	Leu Leu Pro
	85	90 95
Cys Ile Ser Arg Arg Leu	Ala Arg Ile Arg Arg Gly Trp	Glu Arg Glu
	100	105 110
Ser Thr Ile Lys Phe Thr	Leu Pro Thr Asp His Ala	Leu Ala Glu Lys
	115	120 125
Thr Ser His Val		
	130	

<210> 2090

<211> 127

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (107)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (109)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (116)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2090

Met Phe Leu Leu Arg Pro Leu Pro Ile Leu Leu Val Thr Gly Gly Gly
 1 5 10 15

Tyr Ala Gly Tyr Arg Gln Tyr Glu Lys Tyr Arg Glu Arg Glu Leu Glu
 20 25 30

Lys Leu Gly Leu Glu Ile Pro Pro Lys Leu Ala Gly His Trp Glu Val
 35 40 45

Ala Leu Tyr Lys Ser Val Pro Thr Arg Leu Leu Ser Arg Ala Trp Gly
 50 55 60

Arg Leu Asn Gln Val Glu Leu Pro His Trp Leu Arg Arg Pro Val Tyr
 65 70 75 80

Ser Leu Tyr Ile Trp Thr Phe Gly Val Asn Met Lys Glu Ala Ala Val
 85 90 95

Glu Asp Leu His His Tyr Arg Asn Leu Ser Xaa Phe Xaa Arg Arg Lys
 100 105 110

Leu Lys Ala Xaa Gly Pro Ala Cys Leu Trp Pro Ala Gln Arg Asp
 115 120 125

<210> 2091

<211> 89

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (87)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2091

Met Phe Leu Leu Arg Pro Leu Pro Ile Leu Leu Val Thr Gly Gly Gly
 1 5 10 15

Tyr Ala Gly Tyr Arg Gln Tyr Glu Lys Tyr Arg Glu Arg Glu Leu Glu
 20 25 30

Lys Leu Gly Leu Glu Ile Pro Pro Lys Leu Ala Gly His Trp Glu Val
 35 40 45

Ala Leu Tyr Lys Ser Val Pro Thr Arg Leu Leu Ser Arg Ala Trp Gly
 50 55 60

Arg Leu Asn Gln Val Glu Leu Pro His Trp Leu Arg Arg Pro Val Tyr
 65 70 75 80

Ser Leu Tyr Ile Trp Thr Xaa Gly Gly
 85

<210> 2092

<211> 90

<212> PRT

<213> Homo sapiens

<400> 2092

Met Asp Trp Ala Val Leu Thr Val Val Leu Gly Pro Cys Val Pro Gly
 1 5 10 15

Leu Ser Gly Ser Pro Pro Trp Pro Leu Pro Ser Ser His Leu Leu Glu
 20 25 30

Ala Lys Leu Cys Glu Thr Trp His Ser Phe Gln Thr Ser Val Pro Pro
 35 40 45

Arg Pro Cys Ala Gly Val Thr Pro Glu Leu Arg Met Ser Ala Arg Ser
 50 55 60

Arg Gln Tyr Arg Glu Gly Thr Gln Arg Lys Ala Ser Gln Leu Ser Lys
 65 70 75 80

Asp Arg Asp Arg Leu Trp Ser Gly Arg Ala
 85 90

<210> 2093

<211> 110

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (98)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (100)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2093

Met Ala Ala Pro Ala Leu Gly Leu Val Cys Gly Arg Cys Pro Glu Leu
 1 5 10 15

Gly Leu Val Leu Leu Leu Leu Leu Ser Leu Leu Cys Gly Ala Ala
 20 25 30

Gly Ser Gln Glu Ala Gly Thr Gly Ala Gly Ala Gly Ser Leu Ala Gly
 35 40 45

Ser Cys Gly Cys Gly Thr Pro Gln Arg Pro Gly Ala His Gly Ser Ser
 50 55 60

Ala Ala Ala His Arg Tyr Ser Arg Glu Ala Asn Ala Pro Gly Pro Val
 65 70 75 80

Pro Gly Glu Arg Gln Leu Ala His Ser Lys Val Leu His Arg Phe Leu
 85 90 95

Arg Xaa Gly Xaa Gly Leu Leu Gly Ser Trp Thr Gly Leu Glu
 100 105 110

<210> 2094

<211> 374

<212> PRT

<213> Homo sapiens

<400> 2094

Met Ala Ala Pro Ala Leu Gly Leu Val Cys Gly Arg Cys Pro Glu Leu
 1 5 10 15

Gly Leu Val Leu Leu Leu Leu Leu Ser Leu Leu Cys Gly Ala Ala
 20 25 30

Gly Ser Gln Glu Ala Gly Thr Gly Ala Gly Ala Gly Ser Leu Ala Gly
 35 40 45

Ser Cys Gly Cys Gly Thr Pro Gln Arg Pro Gly Ala His Gly Ser Ser
 50 55 60

Ala Ala Ala His Arg Tyr Ser Arg Glu Ala Asn Ala Pro Gly Pro Val
 65 70 75 80

Pro Gly Glu Arg Gln Leu Ala His Ser Lys Met Val Pro Ile Pro Ala
 85 90 95

Gly Val Phe Thr Met Gly Thr Asp Asp Pro Gln Ile Lys Gln Asp Gly
 100 105 110

Glu Ala Pro Ala Arg Arg Val Thr Ile Asp Ala Phe Tyr Met Asp Ala
 115 120 125

Tyr Glu Val Ser Asn Thr Glu Phe Glu Lys Phe Val Asn Ser Thr Gly
 130 135 140

Tyr Leu Thr Glu Ala Glu Lys Phe Gly Asp Ser Phe Val Phe Glu Gly
 145 150 155 160

Met Leu Ser Glu Gln Val Lys Thr Asn Ile Gln Gln Ala Val Ala Ala
 165 170 175

Ala Pro Trp Trp Leu Pro Val Lys Gly Ala Asn Trp Arg His Pro Glu
 180 185 190

Gly Pro Asp Ser Thr Ile Leu His Arg Pro Asp His Pro Val Leu His
 195 200 205

Val Ser Trp Asn Asp Ala Val Ala Tyr Cys Thr Trp Ala Gly Lys Arg

210	215	220
Leu Pro Thr Glu Ala Glu Trp Glu Tyr Ser Cys Arg Gly Gly Leu His 225 230 235 240		
Asn Arg Leu Phe Pro Trp Gly Asn Lys Leu Gln Pro Lys Gly Gln His 245 250 255		
Tyr Ala Asn Ile Trp Gln Gly Glu Phe Pro Val Thr Asn Thr Gly Glu 260 265 270		
Asp Gly Phe Gln Gly Thr Ala Pro Val Asp Ala Phe Pro Pro Asn Gly 275 280 285		
Tyr Gly Leu Tyr Asn Ile Val Gly Asn Ala Trp Glu Trp Thr Ser Asp 290 295 300		
Trp Trp Thr Val His His Ser Val Glu Glu Thr Leu Asn Pro Lys Gly 305 310 315 320		
Pro Pro Ser Gly Lys Asp Arg Val Lys Lys Gly Gly Ser Tyr Met Cys 325 330 335		
His Arg Ser Tyr Cys Tyr Arg Tyr Arg Cys Ala Ala Arg Ser Gln Asn 340 345 350		
Thr Pro Asp Ser Ser Ala Ser Asn Leu Gly Phe Arg Cys Ala Ala Asp 355 360 365		
Arg Leu Pro Thr Met Asp 370		

<210> 2095
 <211> 53
 <212> PRT
 <213> Homo sapiens

<400> 2095
 Met Ser Thr Phe Val Cys Val Cys Val Phe Cys Phe Val Leu Arg Ser
 1 5 10 15
 Glu Ala Arg Ala Lys Arg Lys Gln Asp Gln Arg Asn Thr Lys Arg Cys
 20 25 30
 Leu Leu Thr Lys Gly Gln Arg Asp Leu Ser Val Asn Gln Ser Lys Ile
 35 40 45
 Asn Arg Thr Ala Asn
 50

<210> 2096
 <211> 215
 <212> PRT
 <213> Homo sapiens

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2096

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Met Leu Pro Trp Thr Ala Xaa Gly Leu Ala Leu Ser Leu Arg Leu Ala
 1           5           10           15

Leu Ala Arg Ser Gly Ala Glu Arg Gly Pro Pro Ala Ser Ala Pro Arg
          20           25           30

Gly Asp Leu Met Phe Leu Leu Asp Ser Ser Ala Ser Val Ser His Tyr
 35           40           45

Glu Phe Ser Arg Val Arg Glu Phe Val Gly Gln Leu Val Ala Pro Leu
 50           55           60

Pro Leu Gly Thr Gly Ala Leu Arg Ala Ser Leu Val His Val Gly Ser
 65           70           75           80

Arg Pro Tyr Thr Glu Phe Pro Phe Gly Gln His Ser Ser Gly Glu Ala
          85           90           95

Ala Gln Asp Ala Val Arg Ala Ser Ala Gln Arg Met Gly Asp Thr His
          100          105          110

Thr Gly Leu Ala Leu Val Tyr Ala Lys Glu Gln Leu Phe Ala Glu Ala
          115          120          125

Ser Gly Ala Arg Pro Gly Val Pro Lys Val Leu Val Trp Val Thr Asp
          130          135          140

Gly Gly Ser Ser Asp Pro Val Gly Pro Pro Met Gln Glu Leu Lys Asp
          145          150          155          160

Leu Gly Val Thr Val Phe Ile Val Ser Thr Gly Arg Gly Asn Phe Leu
          165          170          175

Glu Leu Ser Ala Ala Ala Ser Ala Pro Ala Glu Lys His Leu His Phe
          180          185          190

Val Asp Val Asp Asp Leu His Ile Ile Val Gln Glu Leu Arg Gly Ser
          195          200          205

Ile Leu Asp Ala Met Arg Pro
          210          215

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<210> 2097

<211> 127

<212> PRT

<213> Homo sapiens

<400> 2097

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Met Val Pro Gly Ala Ala Gly Trp Cys Cys Leu Val Leu Trp Leu Pro
 1           5           10           15

Ala Cys Val Ala Ala His Gly Phe Arg Ile His Asp Tyr Leu Tyr Phe
          20           25           30

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Gln Val Leu Ser Pro Gly Asp Ile Arg Tyr Ile Phe Thr Ala Thr Pro
 35 40 45

Ala Lys Asp Phe Gly Gly Ile Phe His Thr Arg Tyr Glu Gln Ile His
 50 55 60

Leu Val Pro Ala Glu Pro Pro Glu Ala Cys Gly Glu Leu Ser Asn Gly
 65 70 75 80

Phe Phe Ile Gln Asp Gln Ile Ala Leu Val Glu Arg Gly Gly Cys Ser
 85 90 95

Phe Leu Ser Lys Thr Arg Val Val Gln Glu His Gly Gly Arg Ala Val
 100 105 110

Ile Ile Ser Asp Asn Ala Leu Thr Met Thr Ala Ser Thr Trp Arg
 115 120 125

<210> 2098

<211> 188

<212> PRT

<213> Homo sapiens

<400> 2098

Met Val Pro Gly Ala Ala Gly Trp Cys Cys Leu Val Leu Trp Leu Pro
 1 5 10 15

Ala Cys Val Ala Ala His Gly Phe Arg Ile His Asp Tyr Leu Tyr Phe
 20 25 30

Gln Val Leu Ser Pro Gly Asp Ile Arg Tyr Ile Phe Thr Ala Thr Pro
 35 40 45

Ala Lys Asp Phe Gly Gly Ile Phe His Thr Arg Tyr Glu Gln Ile His
 50 55 60

Leu Val Pro Ala Glu Pro Pro Glu Ala Cys Gly Glu Leu Ser Asn Gly
 65 70 75 80

Phe Phe Ile Gln Asp Gln Ile Ala Leu Val Glu Arg Gly Gly Cys Ser
 85 90 95

Phe Leu Ser Lys Thr Arg Val Val Gln Glu His Gly Gly Arg Ala Val
 100 105 110

Ile Ile Ser Asp Asn Ala Val Asp Asn Asp Ser Phe Tyr Val Glu Met
 115 120 125

Ile Gln Asp Ser Thr Gln Arg Thr Ala Asp Ile Pro Ala Leu Phe Leu
 130 135 140

Leu Gly Arg Asp Gly Tyr Met Ile Arg Arg Ser Leu Glu Gln His Gly
 145 150 155 160

Leu Pro Trp Ala Ile Ile Ser Ile Pro Val Asn Val Thr Ser Ile Pro
 165 170 175

Thr Phe Glu Leu Leu Gln Pro Pro Trp Thr Phe Trp
 180 185

<210> 2099

<211> 72

<212> PRT

<213> Homo sapiens

<400> 2099

Met Leu Val Leu Phe Lys Phe Leu Pro Leu Thr Ser Ser Gly Arg Phe
 1 5 10 15

Leu Ser Val Thr Leu Tyr His Arg Val His His Gln Thr Phe Phe Ala
 20 25 30

Gly Ala Lys Ser Phe Ser Pro Ala Ser Thr Leu Asn Leu Tyr Ile Cys
 35 40 45

Ser Ser Gln Phe Gln Ser Leu Gln Lys Leu Tyr Cys Gly Val Ile Pro
 50 55 60

Val Leu Arg Tyr Ala Ser Ile Glu
 65 70

<210> 2100

<211> 112

<212> PRT

<213> Homo sapiens

<400> 2100

Met Ala Tyr Leu Thr Leu Phe Gln Met Gly Ser Trp Met Ser Phe Ser
 1 5 10 15

Leu Ser Leu Cys Ser Leu Leu Phe Ile Leu Thr Gly His Cys Leu Ser
 20 25 30

Glu Asn Phe Tyr Val Arg Gly Asp Gly Thr Arg Ala Tyr Phe Phe Thr
 35 40 45

Lys Gly Glu Val His Ser Met Phe Cys Lys Ala Ser Leu Asp Glu Lys
 50 55 60

Gln Asn Leu Val Asp Arg Arg Leu Gln Val Asn Arg Lys Lys Gln Val
 65 70 75 80

Lys Met His Arg Val Trp Ile Gln Gly Lys Phe Gln Lys Pro Leu His
 85 90 95

Gln Thr Gln Asn Ser Ser Asn Met Val Ser Thr Leu Leu Ser Gln Asp
 100 105 110

<210> 2101
 <211> 80
 <212> PRT
 <213> Homo sapiens

<400> 2101
 Met Gly Trp Ile Asp Leu Leu Leu Pro Glu Leu Gly Ala Leu Arg Val
 1 5 10 15
 Phe Leu His Leu Phe Leu Val Ala Leu Arg Thr Lys Arg Trp Ile Phe
 20 25 30
 Arg Thr Leu Gly Gln Leu Thr Cys Val Asn Ile Leu Gly Asp Ser Arg
 35 40 45
 Lys Lys Arg Glu Cys Arg Leu Asn Lys Arg Gln Leu Gln Phe Gly Glu
 50 55 60
 Lys Thr Leu Gln Val Pro Glu Arg Leu Val Val Arg His Ser Pro Phe
 65 70 75 80

<210> 2102
 <211> 49
 <212> PRT
 <213> Homo sapiens

<400> 2102
 Met Gln Val Ser Ser Trp Val Val Phe Gln Leu Val Trp Asn Ser Leu
 1 5 10 15
 Val Leu Thr Gln Thr Gly Ile Lys His Tyr Phe Arg Phe Ser Leu Cys
 20 25 30
 Gln Phe Leu Ser Ser Tyr Asn His Val Asn Gln Asp Val Arg Thr Ser
 35 40 45
 Ile

<210> 2103
 <211> 179
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (143)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 2103
 Met Ala Gln Val Leu Ala Ser Glu Leu Ser Leu Val Ala Phe Ile Leu
 1 5 10 15

Leu Leu Val Met Ala Phe Ser Lys Lys Trp Leu Asp Leu Ser Arg Ser
 20 25 30
 Leu Phe Tyr Gln Arg Trp Pro Val Asp Val Ser Asn Arg Ile His Thr
 35 40 45
 Ser Ala His Val Met Ser Met Gly Leu Leu His Phe Cys Lys Ser Arg
 50 55 60
 Ser Cys Ser Asp Leu Glu Asn Gly Lys Val Thr Phe Ile Phe Ser Thr
 65 70 75 80
 Leu Met Leu Phe Pro Ile Asn Ile Trp Ile Phe Glu Leu Glu Arg Asn
 85 90 95
 Val Ser Ile Pro Ile Gly Trp Ser Tyr Phe Ile Gly Trp Leu Val Leu
 100 105 110
 Ile Leu Tyr Phe Thr Cys Ala Ile Leu Cys Tyr Phe Asn His Lys Ser
 115 120 125
 Phe Trp Ser Leu Ile Leu Ser His Pro Ser Gly Ala Val Ser Xaa Ser
 130 135 140
 Ser Ser Phe Gly Ser Val Glu Glu Ser Pro Arg Ala Gln Thr Ile Thr
 145 150 155 160
 Asp Thr Pro Ile Thr Gln Glu Gly Val Leu Asp Pro Glu Gln Lys Asp
 165 170 175
 Thr His Val

<210> 2104

<211> 122

<212> PRT

<213> Homo sapiens

<400> 2104

Met Pro Pro Leu Ala Pro Gln Leu Cys Arg Ala Val Phe Leu Val Pro
 1 5 10 15
 Ile Leu Leu Leu Leu Gln Val Lys Pro Leu Asn Gly Ser Pro Gly Pro
 20 25 30
 Lys Asp Gly Ser Gln Thr Glu Lys Thr Pro Ser Ala Asp Gln Asn Gln
 35 40 45
 Glu Gln Phe Glu Glu His Phe Val Ala Ser Ser Val Gly Glu Met Trp
 50 55 60
 Gln Val Val Asp Met Ala Gln Gln Glu Glu Asp Gln Ser Ser Lys Thr
 65 70 75 80
 Ala Ala Val His Lys His Ser Phe His Leu Ser Phe Cys Phe Ser Leu
 85 90 95
 Ala Ser Val Met Val Phe Ser Gly Gly Pro Leu Arg Arg Thr Phe Pro

1380

100 105 110

Asn Ile Gln Leu Cys Phe Met Leu Thr His
115 120

<210> 2105
<211> 122
<212> PRT
<213> Homo sapiens

<400> 2105
Met Pro Pro Leu Ala Pro Gln Leu Cys Arg Ala Val Phe Leu Val Pro
1 5 10 15
Ile Leu Leu Leu Leu Gln Val Lys Pro Leu Asn Gly Ser Pro Gly Pro
20 25 30
Lys Asp Gly Ser Gln Thr Glu Lys Thr Pro Ser Ala Asp Gln Asn Gln
35 40 45
Glu Gln Phe Glu Glu His Phe Val Ala Ser Ser Val Gly Glu Met Trp
50 55 60
Gln Val Val Asp Met Ala Gln Gln Glu Glu Asp Gln Ser Ser Lys Thr
65 70 75 80
Ala Ala Val His Lys His Ser Phe His Leu Ser Phe Cys Phe Ser Leu
85 90 95
Ala Ser Val Met Val Phe Ser Gly Gly Pro Leu Arg Arg Thr Phe Pro
100 105 110
Asn Ile Gln Leu Cys Phe Met Leu Thr His
115 120

<210> 2106
<211> 459
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (321)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (345)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2106
Met Gly Gly Pro Arg Ala Trp Ala Leu Leu Cys Leu Gly Leu Leu Leu
1 5 10 15
Pro Gly Gly Gly Ala Ala Trp Ser Ile Gly Ala Ala Pro Phe Ser Gly
20 25 30

Arg Arg Asn Trp Cys Ser Tyr Val Val Thr Arg Thr Ile Ser Cys His
 35 40 45
 Val Gln Asn Gly Thr Tyr Leu Gln Arg Val Leu Gln Asn Cys Pro Trp
 50 55 60
 Pro Met Ser Cys Pro Gly Ser Ser Tyr Arg Thr Val Val Arg Pro Thr
 65 70 75 80
 Tyr Lys Val Met Tyr Lys Ile Val Thr Ala Arg Glu Trp Arg Cys Cys
 85 90 95
 Pro Gly His Ser Gly Val Ser Cys Glu Glu Val Ala Ala Ser Ser Ala
 100 105 110
 Ser Leu Glu Pro Met Trp Ser Gly Ser Thr Met Arg Arg Met Ala Leu
 115 120 125
 Arg Pro Thr Ala Phe Ser Gly Cys Leu Asn Cys Ser Lys Val Ser Glu
 130 135 140
 Leu Thr Glu Arg Leu Lys Val Leu Glu Ala Lys Met Thr Met Leu Thr
 145 150 155 160
 Val Ile Glu Gln Pro Val Pro Pro Thr Pro Ala Thr Pro Glu Asp Pro
 165 170 175
 Ala Pro Leu Trp Gly Pro Pro Pro Ala Gln Gly Ser Pro Gly Asp Gly
 180 185 190
 Gly Leu Gln Asp Gln Val Gly Ala Trp Gly Leu Pro Gly Pro Thr Gly
 195 200 205
 Pro Lys Gly Asp Ala Gly Ser Arg Gly Pro Met Gly Met Arg Gly Pro
 210 215 220
 Pro Gly Pro Gln Gly Pro Pro Gly Ser Pro Gly Arg Ala Gly Ala Val
 225 230 235 240
 Gly Thr Pro Gly Glu Arg Gly Pro Pro Gly Pro Pro Gly Pro Pro Gly
 245 250 255
 Pro Pro Gly Pro Pro Ala Pro Val Gly Pro Pro His Ala Arg Ile Ser
 260 265 270
 Gln His Gly Asp Pro Leu Leu Ser Asn Thr Phe Thr Glu Thr Asn Asn
 275 280 285
 His Trp Pro Gln Gly Pro Thr Gly Pro Pro Gly Pro Pro Gly Pro Met
 290 295 300
 Gly Pro Pro Gly Pro Pro Gly Pro Thr Gly Val Pro Gly Ser Pro Gly
 305 310 315 320
 Xaa Ile Gly Pro Pro Gly Pro Thr Gly Pro Lys Gly Ile Ser Gly His
 325 330 335
 Pro Gly Glu Lys Gly Glu Lys Lys Xaa Leu Arg Gly Glu Pro Gly Pro
 340 345 350

Gln Gly Ser Ala Gly Gln Arg Gly Glu Pro Gly Pro Lys Gly Asp Pro
 355 360 365

Gly Glu Lys Ser His Trp Asn Gln Ser Trp Gly Leu Gly Gly Pro Cys
 370 375 380

Arg His Arg His Pro Gln Pro Pro Ser Gly Gln Glu Gly Gly His Ala
 385 390 395 400

Thr Asn Tyr Arg Asp Arg Gly Pro Gln Glu Pro Gly Arg Glu Arg Leu
 405 410 415

Arg Val Val Ala Ala Pro Glu Ala Asp Gln Ala Arg Leu Pro Leu Leu
 420 425 430

Pro Gly Leu Gly Gln Leu Pro Pro Gly Thr Ala Arg Pro Tyr Leu Leu
 435 440 445

Met Ser Ser Gly Ser Leu Leu Pro Ser Arg Pro
 450 455

<210> 2107
 <211> 615
 <212> PRT
 <213> Homo sapiens

<400> 2107

Met Ile Leu Phe Leu Leu Ala Phe Leu Leu Phe Cys Gly Leu Leu Phe
 1 5 10 15

Tyr Ile Asn Leu Ala Asp His Trp Lys Ala Leu Ala Phe Arg Leu Glu
 20 25 30

Glu Glu Gln Lys Met Arg Pro Glu Ile Ala Gly Leu Lys Pro Ala Asn
 35 40 45

Pro Pro Val Leu Pro Ala Pro Gln Lys Ala Asp Thr Asp Pro Glu Asn
 50 55 60

Leu Pro Glu Ile Ser Ser Gln Lys Thr Gln Arg His Ile Gln Arg Gly
 65 70 75 80

Pro Pro His Leu Gln Ile Arg Pro Pro Ser Gln Asp Leu Lys Asp Gly
 85 90 95

Thr Gln Glu Glu Ala Thr Lys Arg Gln Glu Ala Pro Val Asp Pro Arg
 100 105 110

Pro Glu Gly Asp Pro Gln Arg Thr Val Ile Ser Trp Arg Gly Ala Val
 115 120 125

Ile Glu Pro Glu Gln Gly Thr Glu Leu Pro Ser Arg Arg Ala Glu Val
 130 135 140

Pro Thr Lys Pro Pro Leu Pro Pro Ala Arg Thr Gln Gly Thr Pro Val
 145 150 155 160

His Leu Asn Tyr Arg Gln Lys Gly Val Ile Asp Val Phe Leu His Ala
 165 170 175
 Trp Lys Gly Tyr Arg Lys Phe Ala Trp Gly His Asp Glu Leu Lys Pro
 180 185 190
 Val Ser Arg Ser Phe Ser Glu Trp Phe Gly Leu Gly Leu Thr Leu Ile
 195 200 205
 Asp Ala Leu Asp Thr Met Trp Ile Leu Gly Leu Arg Lys Glu Phe Glu
 210 215 220
 Glu Ala Arg Lys Trp Val Ser Lys Lys Leu His Phe Glu Lys Asp Val
 225 230 235 240
 Asp Val Asn Leu Phe Glu Ser Thr Ile Arg Ile Leu Gly Gly Leu Leu
 245 250 255
 Ser Ala Tyr His Leu Ser Gly Asp Ser Leu Phe Leu Arg Lys Ala Glu
 260 265 270
 Asp Phe Gly Asn Arg Leu Met Pro Ala Phe Arg Thr Pro Ser Lys Ile
 275 280 285
 Pro Tyr Ser Asp Val Asn Ile Gly Thr Gly Val Ala His Pro Pro Arg
 290 295 300
 Trp Thr Ser Asp Ser Thr Val Ala Glu Val Thr Ser Ile Gln Leu Glu
 305 310 315 320
 Phe Arg Glu Leu Ser Arg Leu Thr Gly Asp Lys Lys Phe Gln Glu Ala
 325 330 335
 Val Glu Lys Val Thr Gln His Ile His Gly Leu Ser Gly Lys Lys Asp
 340 345 350
 Gly Leu Val Pro Met Phe Ile Asn Thr His Ser Gly Leu Phe Thr His
 355 360 365
 Leu Gly Val Phe Thr Leu Gly Ala Arg Ala Asp Ser Tyr Tyr Glu Tyr
 370 375 380
 Leu Leu Lys Gln Trp Ile Gln Gly Gly Lys Gln Glu Thr Gln Leu Leu
 385 390 395 400
 Glu Asp Tyr Val Glu Ala Ile Glu Gly Val Arg Thr His Leu Leu Arg
 405 410 415
 His Ser Glu Pro Ser Lys Leu Thr Phe Val Gly Glu Leu Ala His Gly
 420 425 430
 Arg Phe Ser Ala Lys Met Asp His Leu Val Cys Phe Leu Pro Gly Thr
 435 440 445
 Leu Ala Leu Gly Val Tyr His Gly Leu Pro Ala Ser His Met Glu Leu
 450 455 460
 Ala Gln Glu Leu Met Glu Thr Cys Tyr Gln Met Asn Arg Gln Met Glu
 465 470 475 480

Thr Gly Leu Ser Pro Glu Ile Val His Phe Asn Leu Tyr Pro Gln Pro
485 490 495

Gly Arg Arg Asp Val Glu Val Lys Pro Ala Asp Arg His Asn Leu Leu
500 505 510

Arg Pro Glu Thr Val Glu Ser Leu Phe Tyr Leu Tyr Arg Val Thr Gly
515 520 525

Asp Arg Lys Tyr Gln Asp Trp Gly Trp Glu Ile Leu Gln Ser Phe Ser
530 535 540

Arg Phe Thr Arg Val Pro Ser Gly Gly Tyr Ser Ser Ile Asn Asn Val
545 550 555 560

Gln Asp Pro Gln Lys Pro Glu Pro Arg Asp Lys Met Glu Ser Phe Phe
565 570 575

Leu Gly Glu Thr Leu Lys Tyr Leu Phe Leu Leu Phe Ser Asp Asp Pro
580 585 590

Asn Leu Leu Ser Leu Asp Ala Tyr Val Phe Asn Thr Glu Ala His Pro
595 600 605

Leu Pro Ile Trp Thr Pro Ala
610 615

<210> 2108

<211> 404

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (77)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (96)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (98)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (108)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE
 <222> (122)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (124)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (126)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (175)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (192)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (210)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (236)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (239)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (309)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (335)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (389)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <400> 2108
 Met His Pro Ile Pro Ser Ser Phe Met Ile Lys Ala Val Ser Ser Phe
 1 5 10 15
 Leu Thr Ala Glu Glu Ala Ser Val Gly Asn Pro Glu Gly Ala Phe Met
 20 25 30

Lys Val Leu Gln Ala Arg Lys Asn Xaa Thr Ser Thr Glu Leu Ile Val
 35 40 45
 Glu Pro Glu Glu Pro Ser Asp Ser Ser Gly Ile Asn Leu Ser Gly Phe
 50 55 60
 Gly Ser Glu Gln Leu Asp Thr Asn Asp Glu Ser Asp Xaa Ile Ser Thr
 65 70 75 80
 Leu Ser Tyr Ile Leu Pro Tyr Phe Ser Ala Val Asn Leu Asp Val Xaa
 85 90 95
 Ser Xaa Leu Leu Pro Phe Ile Lys Leu Pro Thr Xaa Gly Asn Ser Leu
 100 105 110
 Ala Lys Ile Gln Thr Val Gly Gln Asn Xaa Gln Xaa Val Xaa Arg Val
 115 120 125
 Leu Met Gly Pro Arg Ser Ile Gln Lys Arg His Phe Lys Glu Val Gly
 130 135 140
 Arg Gln Ser Ile Arg Arg Glu Gln Gly Ala Gln Ala Ser Val Glu Asn
 145 150 155 160
 Ala Ala Glu Glu Lys Arg Leu Gly Ser Pro Ala Pro Arg Glu Xaa Glu
 165 170 175
 Gln Pro His Thr Gln Gln Gly Pro Glu Lys Leu Ala Gly Asn Ala Xaa
 180 185 190
 Tyr Thr Lys Pro Ser Phe Thr Gln Glu His Lys Ala Ala Val Ser Val
 195 200 205
 Leu Xaa Pro Phe Ser Lys Gly Ala Pro Ser Thr Ser Ser Pro Ala Lys
 210 215 220
 Ala Leu Pro Gln Val Arg Asp Arg Trp Lys Asp Xaa Thr His Xaa Ile
 225 230 235 240
 Ser Ile Leu Glu Ser Ala Lys Ala Arg Val Thr Asn Met Lys Ala Ser
 245 250 255
 Lys Pro Ile Ser His Ser Arg Lys Lys Tyr Arg Phe His Lys Thr Arg
 260 265 270
 Ser Arg Met Thr His Arg Thr Pro Lys Val Lys Lys Ser Pro Lys Phe
 275 280 285
 Arg Lys Lys Ser Tyr Leu Ser Arg Leu Met Leu Ala Asn Arg Pro Pro
 290 295 300
 Phe Ser Ala Ala Xaa Ser Leu Ile Asn Ser Pro Ser Gln Gly Ala Phe
 305 310 315 320
 Ser Ser Leu Gly Asp Leu Ser Pro Gln Glu Asn Pro Phe Leu Xaa Val
 325 330 335
 Ser Ala Pro Ser Glu His Phe Ile Glu Thr Thr Asn Ile Lys Asp Thr
 340 345 350

Thr Ala Arg Asn Ala Leu Glu Glu Asn Val Phe Met Glu Asn Thr Asn
 355 360 365

Met Pro Glu Val Thr Ile Ser Glu Asn Thr Asn Tyr Asn His Pro Pro
 370 375 380

Glu Ala Asp Ser Xaa Gly Thr Ala Phe Asn Leu Gly Pro Thr Val Lys
 385 390 395 400

Gln Thr Glu Thr

<210> 2109

<211> 45

<212> PRT

<213> Homo sapiens

<400> 2109

Met Val Thr Ser Gly Met Leu Val Phe Ser Ile Lys Thr Phe Ser Ser
 1 5 10 15

Lys Ala Phe Leu Ala Val Val Ser Phe Ile Leu Val Val Ser Ile Lys
 20 25 30

Cys Ser Glu Gly Ala Asp Thr Ser Arg Lys Gly Phe Ser
 35 40 45

<210> 2110

<211> 45

<212> PRT

<213> Homo sapiens

<400> 2110

Met Val Thr Ser Gly Met Leu Val Phe Ser Ile Lys Thr Phe Ser Ser
 1 5 10 15

Lys Ala Phe Leu Ala Val Val Ser Phe Ile Leu Val Val Ser Ile Lys
 20 25 30

Cys Ser Glu Gly Ala Asp Thr Ser Arg Lys Gly Phe Ser
 35 40 45

<210> 2111

<211> 257

<212> PRT

<213> Homo sapiens

<400> 2111

Met Glu Met Ile Ile Gln Phe Gly Phe Val Thr Leu Phe Val Ala Ser
 1 5 10 15

Phe Pro Leu Ala Pro Leu Phe Ala Leu Leu Asn Asn Ile Ile Glu Ile
 20 25 30

Arg Leu Asp Ala Lys Lys Phe Val Thr Glu Leu Arg Arg Pro Val Ala
 35 40 45
 Val Arg Ala Lys Asp Ile Gly Ile Trp Tyr Asn Ile Leu Arg Gly Ile
 50 55 60
 Gly Lys Leu Ala Val Ile Ile Asn Ala Phe Val Ile Ser Phe Thr Ser
 65 70 75 80
 Asp Phe Ile Pro Arg Leu Val Tyr Leu Tyr Met Tyr Ser Lys Asn Gly
 85 90 95
 Thr Met His Gly Phe Val Asn His Thr Leu Ser Ser Phe Asn Val Ser
 100 105 110
 Asp Phe Gln Asn Gly Thr Ala Pro Asn Asp Pro Leu Asp Leu Gly Tyr
 115 120 125
 Glu Val Gln Ile Cys Arg Tyr Lys Asp Tyr Arg Glu Pro Pro Trp Ser
 130 135 140
 Glu Asn Lys Tyr Asp Ile Ser Lys Asp Phe Trp Ala Val Leu Ala Ala
 145 150 155 160
 Arg Leu Ala Phe Val Ile Val Phe Gln Asn Leu Val Met Phe Met Ser
 165 170 175
 Asp Phe Val Asp Trp Val Ile Pro Asp Ile Pro Lys Asp Ile Ser Gln
 180 185 190
 Gln Ile His Lys Glu Lys Val Leu Met Val Glu Leu Phe Met Arg Glu
 195 200 205
 Glu Gln Asp Lys Gln Gln Leu Leu Glu Thr Trp Met Glu Lys Glu Arg
 210 215 220
 Gln Lys Asp Glu Pro Pro Cys Asn His His Asn Thr Lys Ala Cys Pro
 225 230 235 240
 Asp Ser Leu Gly Ser Pro Ala Pro Ser His Ala Tyr His Gly Gly Val
 245 250 255
 Leu

<210> 2112

<211> 50

<212> PRT

<213> Homo sapiens

<400> 2112

Met Thr His Gly Cys Leu Ser Leu Ala Ser Met Ala Ala Gly Leu Gly
 1 5 10 15
 Ser Val Ser Leu Phe Leu Phe Val Gln Gln Trp Thr Pro Thr Thr Ala
 20 25 30

Ser Thr Gly Glu Thr Pro Ser Ser Trp Gln Lys Thr Thr Ser Cys Val
 35 40 45

Arg Arg
 50

<210> 2113
 <211> 50
 <212> PRT
 <213> Homo sapiens

<400> 2113
 Met Thr His Gly Cys Leu Ser Leu Ala Ser Met Ala Ala Gly Leu Gly
 1 5 10 15

Ser Val Ser Leu Phe Leu Phe Val Gln Gln Trp Thr Pro Thr Thr Ala
 20 25 30

Ser Thr Gly Glu Thr Pro Ser Ser Trp Gln Lys Thr Thr Ser Cys Val
 35 40 45

Arg Arg
 50

<210> 2114
 <211> 74
 <212> PRT
 <213> Homo sapiens

<400> 2114
 Met Val Leu Leu Leu Leu Leu Leu Leu Gln Lys Ile Pro Gly Thr Pro
 1 5 10 15

Leu Phe Gln Pro Gly Phe Leu Gly Trp Ala Gln Glu Ser Cys Gln Ile
 20 25 30

Gln Ser Tyr Val Gly Ser Lys Leu Pro Leu Cys Cys Phe Cys Gln Ala
 35 40 45

Arg Cys Gly His Ser Lys Phe Ile Cys Val Asn Lys Arg Lys Glu Glu
 50 55 60

Pro Ser Gly Cys Asn Arg Thr Asp Ser Ser
 65 70

<210> 2115
 <211> 94
 <212> PRT
 <213> Homo sapiens

<400> 2115
 Met Trp Pro Trp Trp Leu Met Val Glu Arg Thr Val Val Leu Leu Leu
 1 5 10 15

Ile Thr Tyr Leu Val Pro Val Gly Gly Ser Ala Val Gly Pro Pro Gly
 20 25 30

Pro Gly Cys Asn Val Ser Thr Ser Pro Pro Pro Pro Ala Thr Arg Cys
 35 40 45

Pro Asp Glu Ser Glu Leu Tyr Arg Asp Pro Gly Glu Ala Pro Leu Glu
 50 55 60

Ala Asp Gln Ala Glu Arg Gly Ala Ala His Glu Gly Gly His Pro Gly
 65 70 75 80

Arg Asp Pro Trp Gly Ala Arg Arg Gly Pro Pro Arg Cys Gly
 85 90

<210> 2116

<211> 180

<212> PRT

<213> Homo sapiens

<400> 2116

Met Ala Ile Cys Ser Cys Gln Cys Pro Ala Ala Met Ala Phe Cys Phe
 1 5 10 15

Leu Glu Thr Leu Trp Trp Glu Phe Thr Ala Ser Tyr Asp Thr Thr Cys
 20 25 30

Ile Gly Leu Ala Ser Arg Pro Tyr Ala Phe Leu Glu Phe Asp Ser Ile
 35 40 45

Ile Gln Lys Val Lys Trp His Phe Asn Tyr Val Ser Ser Ser Gln Met
 50 55 60

Glu Cys Ser Leu Glu Lys Ile Gln Glu Glu Leu Lys Leu Gln Pro Pro
 65 70 75 80

Ala Val Leu Thr Leu Glu Asp Thr Asp Val Ala Asn Gly Val Met Asn
 85 90 95

Gly His Thr Pro Met His Leu Glu Pro Ala Pro Asn Phe Arg Met Glu
 100 105 110

Pro Val Thr Ala Leu Gly Ile Leu Ser Leu Ile Leu Asn Ile Met Cys
 115 120 125

Ala Ala Leu Asn Leu Ile Arg Gly Val His Leu Ala Glu His Ser Leu
 130 135 140

Gln Val Ala His Glu Glu Ile Gly Asn Ile Leu Ala Phe Leu Val Pro
 145 150 155 160

Phe Val Ala Cys Ile Phe Gln Asp Pro Arg Ser Trp Phe Cys Trp Leu
 165 170 175

Asp Gln Thr Ser
 180

<210> 2117
 <211> 80
 <212> PRT
 <213> Homo sapiens

<400> 2117
 Met Trp Pro Arg Met Leu Ala Phe Ser Thr Trp Leu Glu Trp Leu Leu
 1 5 10 15
 Phe Ser Pro Leu Pro Gln Ser Val Gly Cys Pro Gly Pro Leu Glu Phe
 20 25 30
 Tyr Cys Val Gln Asp Arg Arg Pro Pro Ser Leu Pro Asp Gly Ala Asp
 35 40 45
 His Phe Ser Ser Pro Thr Arg Ile Thr Ser Ser Ser Ile Ser Pro Ala
 50 55 60
 Leu Ser Leu Gln Ala Pro Glu Ala Gly Gly Phe Leu Ser Ile Pro Gly
 65 70 75 80

<210> 2118
 <211> 21
 <212> PRT
 <213> Homo sapiens

<400> 2118
 Met His Asp Val Leu Phe Phe Leu Ser Phe Ser Leu Val Ala Cys Val
 1 5 10 15
 Lys Ala Gly Met Leu
 20

<210> 2119
 <211> 291
 <212> PRT
 <213> Homo sapiens

<400> 2119
 Met Asp Phe Ile Gln His Leu Gly Val Cys Cys Leu Val Ala Leu Ile
 1 5 10 15
 Ser Val Gly Leu Leu Ser Val Ala Ala Cys Trp Phe Leu Pro Ser Ile
 20 25 30
 Ile Ala Ala Ala Ala Ser Trp Ile Ile Thr Cys Val Leu Leu Cys Cys
 35 40 45
 Ser Lys His Ala Arg Cys Phe Ile Leu Leu Val Phe Leu Ser Cys Gly
 50 55 60
 Leu Arg Glu Gly Arg Asn Ala Leu Ile Ala Ala Gly Thr Gly Ile Val

65 70 75 80
 Ile Leu Gly His Val Glu Asn Ile Phe His Asn Phe Lys Gly Leu Leu
 85 90 95
 Asp Gly Met Thr Cys Asn Leu Arg Ala Lys Ser Phe Ser Ile His Phe
 100 105 110
 Pro Leu Leu Lys Lys Tyr Ile Glu Ala Ile Gln Trp Ile Tyr Gly Leu
 115 120 125
 Ala Thr Pro Leu Ser Val Phe Asp Asp Leu Val Ser Trp Asn Gln Thr
 130 135 140
 Leu Ala Val Ser Leu Phe Ser Pro Ser His Val Leu Glu Ala Gln Leu
 145 150 155 160
 Asn Asp Ser Lys Gly Glu Val Leu Ser Val Leu Tyr Gln Met Ala Thr
 165 170 175
 Thr Thr Glu Val Leu Ser Ser Leu Gly Gln Lys Leu Leu Ala Phe Ala
 180 185 190
 Gly Leu Ser Leu Val Leu Leu Gly Thr Gly Leu Phe Met Lys Arg Phe
 195 200 205
 Leu Gly Pro Cys Gly Trp Lys Tyr Glu Asn Ile Tyr Ile Thr Arg Gln
 210 215 220
 Phe Val Gln Phe Asp Glu Arg Glu Arg His Gln Gln Arg Pro Cys Met
 225 230 235 240
 Leu Pro Leu Asn Lys Glu Glu Arg Arg Lys Asn Lys Glu Leu Lys Ile
 245 250 255
 Leu Ser Met Ile Leu Pro Leu Ile Tyr Leu Cys Leu Asn Pro Thr Val
 260 265 270
 Ser Gln Asn Gln Asn Ser Phe Tyr Leu Arg Pro Gly Phe Leu Ser Val
 275 280 285
 Leu Phe Phe
 290

<210> 2120

<211> 257

<212> PRT

<213> Homo sapiens

<400> 2120

Met Asp Phe Ile Gln His Leu Gly Val Cys Cys Leu Val Ala Leu Ile
 1 5 10 15

Ser Val Gly Leu Leu Ser Val Ala Ala Cys Trp Phe Leu Pro Ser Ile
 20 25 30

Ile Ala Ala Ala Ala Ser Trp Ile Ile Thr Cys Val Leu Leu Cys Cys
 35 40 45

Ser Lys His Ala Arg Cys Phe Ile Leu Leu Val Phe Leu Ser Cys Gly
 50 55 60
 Leu Arg Glu Gly Arg Asn Ala Leu Ile Ala Ala Gly Thr Gly Ile Val
 65 70 75 80
 Ile Leu Gly His Val Glu Asn Ile Phe His Asn Phe Lys Gly Leu Leu
 85 90 95
 Asp Gly Met Thr Cys Asn Leu Arg Ala Lys Ser Phe Ser Ile His Phe
 100 105 110
 Pro Leu Leu Lys Lys Tyr Ile Glu Ala Ile Gln Trp Ile Tyr Gly Leu
 115 120 125
 Ala Thr Pro Leu Ser Val Phe Asp Asp Leu Val Ser Trp Asn Gln Thr
 130 135 140
 Leu Ala Val Ser Leu Phe Ser Pro Ser His Val Leu Glu Ala Gln Leu
 145 150 155 160
 Asn Asp Ser Lys Gly Glu Val Leu Ser Val Leu Tyr Gln Met Ala Thr
 165 170 175
 Thr Thr Glu Val Leu Ser Ser Leu Gly Gln Lys Leu Leu Ala Phe Ala
 180 185 190
 Gly Leu Ser Leu Val Leu Leu Gly Thr Gly Leu Phe Met Lys Arg Phe
 195 200 205
 Leu Gly Pro Cys Gly Trp Lys Tyr Glu Asn Ile Tyr Ile Thr Arg Gln
 210 215 220
 Phe Val Gln Phe Asp Glu Arg Glu Arg His Gln Gln Arg Pro Cys Val
 225 230 235 240
 Leu Pro Leu Asn Lys Glu Glu Arg Arg Lys Phe Ile Ser Gly Phe Gln
 245 250 255

Ser

<210> 2121

<211> 257

<212> PRT

<213> Homo sapiens

<400> 2121

Met Asp Phe Ile Gln His Leu Gly Val Cys Cys Leu Val Ala Leu Ile
 1 5 10 15

Ser Val Gly Leu Leu Ser Val Ala Ala Cys Trp Phe Leu Pro Ser Ile
 20 25 30

Ile Ala Ala Ala Ala Ser Trp Ile Ile Thr Cys Val Leu Leu Cys Cys
 35 40 45

Ser Lys His Ala Arg Cys Phe Ile Leu Leu Val Phe Leu Ser Cys Gly
 50 55 60
 Leu Arg Glu Gly Arg Asn Ala Leu Ile Ala Ala Gly Thr Gly Ile Val
 65 70 75 80
 Ile Leu Gly His Val Glu Asn Ile Phe His Asn Phe Lys Gly Leu Leu
 85 90 95
 Asp Gly Met Thr Cys Asn Leu Arg Ala Lys Ser Phe Ser Ile His Phe
 100 105 110
 Pro Leu Leu Lys Lys Tyr Ile Glu Ala Ile Gln Trp Ile Tyr Gly Leu
 115 120 125
 Ala Thr Pro Leu Ser Val Phe Asp Asp Leu Val Ser Trp Asn Gln Thr
 130 135 140
 Leu Ala Val Ser Leu Phe Ser Pro Ser His Val Leu Glu Ala Gln Leu
 145 150 155 160
 Asn Asp Ser Lys Gly Glu Val Leu Ser Val Leu Tyr Gln Met Ala Thr
 165 170 175
 Thr Thr Glu Val Leu Ser Ser Leu Gly Gln Lys Leu Leu Ala Phe Ala
 180 185 190
 Gly Leu Ser Leu Val Leu Leu Gly Thr Gly Leu Phe Met Lys Arg Phe
 195 200 205
 Leu Gly Pro Cys Gly Trp Lys Tyr Glu Asn Ile Tyr Ile Thr Arg Gln
 210 215 220
 Phe Val Gln Phe Asp Glu Arg Glu Arg His Gln Gln Arg Pro Cys Val
 225 230 235 240
 Leu Pro Leu Asn Lys Glu Glu Arg Arg Lys Phe Ile Ser Gly Phe Gln
 245 250 255
 Ser

<210> 2122

<211> 352

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (284)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2122

Met Asp Phe Ile Gln His Leu Gly Val Cys Cys Leu Val Ala Leu Ile
 1 5 10 15

Ser Val Gly Leu Leu Ser Val Ala Ala Cys Trp Phe Leu Pro Ser Ile
 20 25 30

Ile Ala Ala Ala Ala Ser Trp Ile Ile Thr Cys Val Leu Leu Cys Cys
 35 40 45
 Ser Lys His Ala Arg Cys Phe Ile Leu Leu Val Phe Leu Ser Cys Gly
 50 55 60
 Leu Arg Glu Gly Arg Asn Ala Leu Ile Ala Ala Gly Thr Gly Ile Val
 65 70 75 80
 Ile Leu Gly His Val Glu Asn Ile Phe His Asn Phe Lys Gly Leu Leu
 85 90 95
 Asp Gly Met Thr Cys Asn Leu Arg Ala Lys Ser Phe Ser Ile His Phe
 100 105 110
 Pro Leu Leu Lys Lys Tyr Ile Glu Ala Ile Gln Trp Ile Tyr Gly Leu
 115 120 125
 Ala Thr Pro Leu Ser Val Phe Asp Asp Leu Val Ser Trp Asn Gln Thr
 130 135 140
 Leu Ala Val Ser Leu Phe Ser Pro Ser His Val Leu Glu Ala Gln Leu
 145 150 155 160
 Asn Asp Ser Lys Gly Glu Val Leu Ser Val Leu Tyr Gln Met Ala Thr
 165 170 175
 Thr Thr Glu Val Leu Ser Ser Leu Gly Gln Lys Leu Leu Ala Phe Ala
 180 185 190
 Gly Leu Ser Leu Val Leu Leu Gly Thr Gly Leu Phe Met Lys Arg Phe
 195 200 205
 Leu Gly Pro Cys Gly Trp Lys Tyr Glu Asn Ile Tyr Ile Thr Arg Gln
 210 215 220
 Phe Val Gln Phe Asp Glu Arg Glu Arg His Gln Gln Arg Pro Cys Val
 225 230 235 240
 Leu Pro Leu Asn Lys Glu Glu Arg Arg Lys Tyr Val Ile Ile Pro Thr
 245 250 255
 Phe Trp Pro Thr Pro Lys Glu Arg Lys Asn Leu Gly Leu Phe Phe Leu
 260 265 270
 Pro Ile Leu Ile His Leu Cys Ile Trp Val Leu Xaa Ala Ala Val Asp
 275 280 285
 Tyr Leu Leu Tyr Arg Leu Ile Phe Ser Val Ser Lys Gln Phe Gln Ser
 290 295 300
 Leu Pro Gly Phe Glu Val His Leu Lys Leu His Gly Glu Lys Gln Gly
 305 310 315 320
 Thr Gln Asp Ile Ile His Asp Ser Ser Phe Asn Ile Ser Val Phe Glu
 325 330 335
 Pro Asn Cys Ile Pro Lys Pro Trp Gln Ala Leu Lys Leu Leu Ala His
 340 345 350

<210> 2123

<211> 259

<212> PRT

<213> Homo sapiens

<400> 2123

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Met Val Ser Cys Ser Ile Leu Ala Leu Thr His Leu Leu Phe Glu Phe
  1              5              10              15

Lys Gly Leu Met Gly Thr Ser Thr Val Glu Gln Leu Leu Glu Asn Val
      20              25              30

Cys Leu Leu Leu Ala Ser Arg Thr Arg Asp Val Val Lys Ser Ala Leu
      35              40              45

Gly Phe Ile Lys Val Ala Val Thr Val Met Asp Val Ala His Leu Ala
      50              55              60

Lys His Val Gln Leu Val Met Glu Ala Ile Gly Lys Leu Ser Asp Asp
      65              70              75              80

Met Arg Arg His Phe Arg Met Lys Leu Arg Asn Leu Phe Thr Lys Phe
      85              90              95

Ile Arg Lys Phe Gly Phe Glu Leu Val Lys Arg Leu Leu Pro Glu Glu
      100              105              110

Tyr His Arg Val Leu Val Asn Ile Arg Lys Ala Glu Ala Arg Ala Lys
      115              120              125

Arg His Arg Ala Leu Ser Gln Ala Ala Val Glu Glu Glu Glu Glu
      130              135              140

Glu Glu Glu Glu Glu Pro Ala Gln Gly Lys Gly Asp Ser Ile Glu Glu
      145              150              155              160

Ile Leu Ala Asp Ser Glu Asp Glu Glu Asp Asn Glu Glu Glu Glu Arg
      165              170              175

Ser Arg Gly Lys Glu Gln Arg Lys Leu Ala Arg Gln Arg Ser Arg Ala
      180              185              190

Trp Leu Lys Glu Gly Gly Gly Asp Glu Pro Leu Asn Phe Leu Asp Pro
      195              200              205

Lys Val Ala Gln Arg Val Leu Ala Thr Gln Pro Gly Pro Ala Gly Gln
      210              215              220

Glu Glu Gly Pro Gln Leu Gln Gly Glu Arg Arg Trp Pro Ala Asp His
      225              230              235              240

Lys Gly Gly Gly Arg Arg Gln Gln Asp Gly Gly Arg Gly Arg Cys Gln
      245              250              255

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Arg Arg Arg

<210> 2124
 <211> 42
 <212> PRT
 <213> Homo sapiens

<400> 2124
 Met Leu Trp Leu Gly Thr Ser Leu Ile Phe Ser Ser Phe Ser Ala Ser
 1 5 10 15
 Phe Asp Gly Val Pro Phe Leu Ser Ser Trp Leu Phe Trp Ser Ser Gly
 20 25 30
 Ser Ser Pro Asn Ser Leu Ile Pro Pro Phe
 35 40

<210> 2125
 <211> 45
 <212> PRT
 <213> Homo sapiens

<400> 2125
 Met Tyr Pro Pro Val Ala Pro Ser Phe Trp Gly Cys Val Cys Phe Phe
 1 5 10 15
 Trp Ala Val Pro Leu Val Cys Cys Arg Asp Ser Trp Lys Gly Leu Ser
 20 25 30
 Leu Phe Val Gly Ser Gly Gly Leu Gly Leu Val Glu His
 35 40 45

<210> 2126
 <211> 54
 <212> PRT
 <213> Homo sapiens

<400> 2126
 Met Trp Pro Phe Leu His Leu Leu Asn Met Pro Phe Thr Leu Thr Gln
 1 5 10 15
 Val Val Ala Ser Pro Ser Ser Cys Ser Asn Trp Lys Pro Gln His Pro
 20 25 30
 Glu Met Pro Pro Pro Gln Ile His Cys Thr His Val Cys Leu Cys Met
 35 40 45
 Arg Val Cys Ala Arg Val.
 50

<210> 2127

<211> 136
 <212> PRT
 <213> Homo sapiens

<400> 2127
 Met Leu Met Leu Leu Thr Leu Leu Val Leu Gly Met Val Trp Val Ala
 1 5 10 15
 Ser Ala Ile Val Asp Lys Asn Lys Ala Asn Arg Glu Ser Leu Tyr Asp
 20 25 30
 Phe Trp Glu Tyr Tyr Leu Pro Tyr Leu Tyr Ser Cys Ile Ser Phe Leu
 35 40 45
 Gly Val Leu Leu Leu Leu Gly Glu Cys Thr Gly Ser Gly Arg Glu Trp
 50 55 60
 Ala Gly Ser Leu Asp Gln Ser Asn Gln Ala Arg Arg Lys Gly Asn Gly
 65 70 75 80
 Gly His Val Arg Glu Gly Val Glu Ser Arg Val Trp Gln Val Thr Gly
 85 90 95
 Ser Cys Pro Tyr Ser Val Tyr Ser Thr Gly Ser Arg Pro His Val Leu
 100 105 110
 Arg His Trp Glu Ala Ala Ser Gln Ala Pro Ala Ala Gly Arg Pro Gly
 115 120 125
 Gly Ala Ala Val Leu Leu Ser Leu
 130 135

<210> 2128
 <211> 74
 <212> PRT
 <213> Homo sapiens

<400> 2128
 Met His Trp Thr Phe Ser Ser Ser Leu Gly Cys Leu Tyr His Phe Ser
 1 5 10 15
 Leu Ser Phe Ser Gly Leu His Thr Val Leu Lys Ser Ser Pro Ser Ser
 20 25 30
 Arg Phe Leu Leu Pro Cys Ser Ser Gln Val Thr Gln Pro Ser Pro Val
 35 40 45
 Gly Gln Pro Arg Leu Val Val Gln Leu Pro Pro Val Lys Val Ile Gly
 50 55 60
 His Arg Thr Gly Gln Cys Arg Gly Pro Gly
 65 70

<210> 2129
 <211> 253
 <212> PRT

<213> Homo sapiens

<400> 2129

Met Asp Asn Arg Phe Ala Thr Ala Phe Val Ile Ala Cys Val Leu Ser
 1 5 10 15
 Leu Ile Ser Thr Ile Tyr Met Ala Ala Ser Ile Gly Thr Asp Phe Trp
 20 25 30
 Tyr Glu Tyr Arg Ser Pro Val Gln Glu Asn Ser Ser Asp Leu Asn Lys
 35 40 45
 Ser Ile Trp Asp Glu Phe Ile Ser Asp Glu Ala Asp Glu Lys Thr Tyr
 50 55 60
 Asn Asp Ala Leu Phe Arg Tyr Asn Gly Thr Val Gly Leu Trp Arg Arg
 65 70 75 80
 Cys Ile Thr Ile Pro Lys Asn Met His Trp Tyr Ser Pro Pro Glu Arg
 85 90 95
 Thr Glu Ser Phe Asp Val Val Thr Lys Cys Val Ser Phe Thr Leu Thr
 100 105 110
 Glu Gln Phe Met Glu Lys Phe Val Asp Pro Gly Asn His Asn Ser Gly
 115 120 125
 Ile Asp Leu Leu Arg Thr Tyr Leu Trp Arg Cys Gln Phe Leu Leu Pro
 130 135 140
 Phe Val Ser Leu Gly Leu Met Cys Phe Gly Ala Leu Ile Gly Leu Cys
 145 150 155 160
 Ala Cys Ile Cys Arg Ser Leu Tyr Pro Thr Ile Ala Thr Gly Ile Leu
 165 170 175
 His Leu Leu Ala Gly Leu Cys Thr Leu Gly Ser Val Ser Cys Tyr Val
 180 185 190
 Ala Gly Ile Glu Leu Leu His Gln Lys Leu Glu Leu Pro Asp Asn Val
 195 200 205
 Ser Gly Glu Phe Gly Trp Ser Phe Cys Leu Ala Cys Val Ser Ala Pro
 210 215 220
 Leu Gln Phe Met Ala Ser Ala Leu Phe Ile Trp Ala Ala His Thr Asn
 225 230 235 240
 Arg Lys Glu Tyr Thr Leu Met Lys Ala Tyr Arg Val Ala
 245 250

<210> 2130

<211> 253

<212> PRT

<213> Homo sapiens

<400> 2130

Met Asp Asn Arg Phe Ala Thr Ala Phe Val Ile Ala Cys Val Leu Ser
 1400

1 5 10 15
 Leu Ile Ser Thr Ile Tyr Met Ala Ala Ser Ile Gly Thr Asp Phe Trp
 20 25 30
 Tyr Glu Tyr Arg Ser Pro Val Gln Glu Asn Ser Ser Asp Leu Asn Lys
 35 40 45
 Ser Ile Trp Asp Glu Phe Ile Ser Asp Glu Ala Asp Glu Lys Thr Tyr
 50 55 60
 Asn Asp Ala Leu Phe Arg Tyr Asn Gly Thr Val Gly Leu Trp Arg Arg
 65 70 75 80
 Cys Ile Thr Ile Pro Lys Asn Met His Trp Tyr Ser Pro Pro Glu Arg
 85 90 95
 Thr Glu Ser Phe Asp Val Val Thr Lys Cys Val Ser Phe Thr Leu Thr
 100 105 110
 Glu Gln Phe Met Glu Lys Phe Val Asp Pro Gly Asn His Asn Ser Gly
 115 120 125
 Ile Asp Leu Leu Arg Thr Tyr Leu Trp Arg Cys Gln Phe Leu Leu Pro
 130 135 140
 Phe Val Ser Leu Gly Leu Met Cys Phe Gly Ala Leu Ile Gly Leu Cys
 145 150 155 160
 Ala Cys Ile Cys Arg Ser Leu Tyr Pro Thr Ile Ala Thr Gly Ile Leu
 165 170 175
 His Leu Leu Ala Gly Leu Cys Thr Leu Gly Ser Val Ser Cys Tyr Val
 180 185 190
 Ala Gly Ile Glu Leu Leu His Gln Lys Leu Glu Leu Pro Asp Asn Val
 195 200 205
 Ser Gly Glu Phe Gly Trp Ser Phe Cys Leu Ala Cys Val Ser Ala Pro
 210 215 220
 Leu Gln Phe Met Ala Ser Ala Leu Phe Ile Trp Ala Ala His Thr Asn
 225 230 235 240
 Arg Lys Glu Tyr Thr Leu Met Lys Ala Tyr Arg Val Ala
 245 250

<210> 2131

<211> 57

<212> PRT

<213> Homo sapiens

<400> 2131

Met Phe Phe Gln Gly Trp Val Asp Arg Trp Leu Leu Gly Cys Leu Ala
 1 5 10 15

Pro Gly Gly Phe Ala Ile His Glu Ala Arg Ala Gly Asn Thr Val Ser
 20 25 30

1401

Leu Pro Met Val Asp Pro Cys Glu Cys Gln Glu Ala Ser Ser Ser Val
 35 40 45

Leu Glu Met Ile Ser Ala Thr Ile Leu
 50 55

<210> 2132

<211> 41

<212> PRT

<213> Homo sapiens

<400> 2132

Met Asn Leu Met Val Arg Leu Leu Ala Leu Gly Leu Ile Ser Gly Met
 1 5 10 15

Met Ser Asn Ile Thr Gln Ser His Ser Ser Lys Ile Ser Ala Phe Gly
 20 25 30

Ile Phe Ile Gly Pro Glu Gln Phe Leu
 35 40

<210> 2133

<211> 51

<212> PRT

<213> Homo sapiens

<400> 2133

Met Ser Leu Glu Pro Ser Thr Ser Ser Phe Asn Ile Leu Leu Phe Pro
 1 5 10 15

Ala Phe Leu Arg Val Phe Gly Trp Ala Leu Gly Trp Met Pro Trp Glu
 20 25 30

Tyr Leu Tyr Leu Ser Ser Lys Val Thr Asn Gly Glu Thr Gly Thr Gln
 35 40 45

Arg Gly Thr
 50

<210> 2134

<211> 60

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (42)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2134

Met Phe Phe Pro Cys Leu Pro Thr Leu Xaa Leu Arg Ile Leu His Ser
 1 5 10 15

Gly Trp Val Gly Leu Phe Leu Leu Ile Ser Ser Arg Ala Pro Ser Ser
 20 25 30

Ser Leu Ala Trp Lys His Gly Pro Gly Xaa Leu Trp Trp Pro Arg Arg
 35 40 45

Pro Leu Arg Ser Cys Thr Gly Leu Ala Ser Cys Gly
 50 55 60

<210> 2135

<211> 60

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (48)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2135

Met Phe Phe Pro Cys Leu Pro Thr Leu Xaa Leu Arg Ile Leu His Ser
 1 5 10 15

Gly Trp Val Gly Leu Phe Leu Leu Ile Ser Ser Arg Ala Pro Ser Ser
 20 25 30

Ser Leu Ala Trp Lys His Gly Pro Gly Glu Leu Trp Trp Pro Arg Xaa
 35 40 45

Pro Leu Arg Ser Cys Thr Gly Leu Ala Ser Cys Gly
 50 55 60

<210> 2136

<211> 78

<212> PRT

<213> Homo sapiens

<400> 2136

Met Ser Pro His Gln Pro Met Gln Val Ser Ser Ser Lys Thr Ile Leu
 1 5 10 15

Trp Leu Val Leu Ser Cys Leu Cys Pro Ser Ser Pro His Pro Val Ile
 20 25 30

Ser Gly Leu Pro Gln Trp Tyr Ile Gly Val Leu Ala Gly Ile Val Pro
 35 40 45

Val Ala Pro Ile Arg Pro Gly Asp Ser Gly Leu Asp Leu Gln Arg Glu
 50 55 60

Gly Pro Gln Pro Ile Leu Ser Gln Gly Leu Asn Arg Arg Thr
 65 70 75

<210> 2137

<211> 78

<212> PRT

<213> Homo sapiens

<400> 2137

Met Ser Pro His Gln Pro Met Gln Val Ser Ser Ser Lys Thr Ile Leu
 1 5 10 15

Trp Leu Val Leu Ser Cys Leu Cys Pro Ser Ser Pro His Pro Val Ile
 20 25 30

Ser Gly Leu Pro Gln Trp Tyr Ile Gly Val Leu Ala Gly Ile Val Pro
 35 40 45

Val Ala Pro Ile Arg Pro Gly Asp Ser Gly Leu Asp Leu Gln Arg Glu
 50 55 60

Gly Pro Gln Pro Ile Leu Ser Gln Gly Leu Asn Arg Arg Thr
 65 70 75

<210> 2138

<211> 144

<212> PRT

<213> Homo sapiens

<400> 2138

Met Ser Ala Val Ser Ala Pro Ala Leu Trp Gln Thr Trp Cys Val Pro
 1 5 10 15

Ala Ala Arg Ala Trp Thr Ser Ser Thr Leu Arg His Asp Ala Val Ala
 20 25 30

Arg Pro Asn Pro Ser Thr Ser Leu Thr Pro Gly Leu Leu Thr Ser Ser
 35 40 45

Asp Ser Pro Arg Trp Pro Gly Leu Gln Glu Ala Pro Gly Arg Pro Cys
 50 55 60

Ile Arg Leu Gly Arg Ser Glu Leu Cys Met Tyr Ile Tyr Thr Tyr Ile
 65 70 75 80

Asp Thr Phe Ile Ile Tyr Thr His Ser Leu Tyr Ile Tyr Ile His Cys
 85 90 95

Phe Leu Ala Pro Glu Leu Ile Trp Val Gln Ala His Phe Lys Thr Leu
 100 105 110

Pro Gly Gly Gly Cys Phe Phe Ser Gly Phe Leu Ala Arg Glu Glu Gly

115	120	125
Glu Gly Thr Gly Trp Val Phe Ser Leu Lys Arg Glu Ser Arg Arg Phe		
130	135	140

<210> 2139
 <211> 151
 <212> PRT
 <213> Homo sapiens

<400> 2139
 Met Leu His Trp Val Leu Ser Phe Phe Phe Leu Leu Ser Cys Pro Arg
 1 5 10 15
 Thr Glu Gly Leu Pro Gly Leu Tyr Cys Pro Gly Cys Ser Gln Cys Pro
 20 25 30
 Gly Arg Gly Met Trp Pro Gly Asp Pro Gly Pro Gly Ile Gln Gly Pro
 35 40 45
 Gly Leu Asp Leu Arg Thr Gly Met Glu Ala Thr Gly Ala Gln Gln Pro
 50 55 60
 Thr Leu Ser Ser Pro His Cys Leu Leu Ser Leu Pro Thr Leu Pro Ala
 65 70 75 80
 Arg Ala Val Gln Leu Arg Trp Asp Leu Ser Ile Ser Arg Ala Gly Gly
 85 90 95
 Arg Val Ala Val Leu Gly Leu Cys Leu Glu Pro Gly Gly Ser Leu Leu
 100 105 110
 Leu Pro Pro Ser Ala Leu Pro Glu Thr Asp Pro Cys Ala Ala Cys Pro
 115 120 125
 Pro Cys Pro Phe Val Pro Met Ser Gly Gly Gly Gly Arg Pro Thr Val
 130 135 140
 Pro Glu Ala Gly His Gln Pro
 145 150

<210> 2140
 <211> 173
 <212> PRT
 <213> Homo sapiens

<400> 2140
 Met Pro Pro Tyr Thr Pro Phe Phe Gly Thr Arg Ala Leu Leu Ser Val
 1 5 10 15
 Ser Leu Pro Pro Pro Cys Met Leu His Trp Val Leu Ser Phe Phe Phe
 20 25 30

Leu Leu Ser Cys Pro Arg Thr Glu Gly Leu Pro Gly Leu Tyr Cys Pro
 35 40 45
 Gly Cys Ser Gln Cys Pro Gly Arg Gly Met Trp Pro Gly Asp Pro Gly
 50 55 60
 Pro Gly Ile Gln Gly Pro Gly Leu Asp Leu Arg Thr Gly Met Glu Ala
 65 70 75 80
 Thr Gly Ala Gln Gln Pro Thr Leu Ser Ser Pro His Cys Leu Leu Ser
 85 90 95
 Leu Pro Thr Leu Pro Ala Arg Ala Val Gln Leu Arg Trp Asp Leu Ser
 100 105 110
 Ile Ser Arg Ala Gly Gly Arg Val Ala Val Leu Gly Leu Cys Leu Glu
 115 120 125
 Pro Gly Gly Ser Leu Leu Leu Pro Pro Ser Ala Leu Pro Glu Thr Asp
 130 135 140
 Pro Cys Ala Ala Cys Pro Pro Cys Pro Phe Val Pro Met Ser Gly Gly
 145 150 155 160
 Gly Gly Arg Pro Thr Val Pro Glu Ala Gly His Gln Pro
 165 170

<210> 2141

<211> 82

<212> PRT

<213> Homo sapiens

<400> 2141

Met Asn Arg Ser Thr Arg Ser Tyr Arg Cys Trp Ala Thr Trp Pro Arg
 1 5 10 15
 Leu Gly Trp Ala Leu Pro Cys Cys Met Asn Ser Leu Arg Lys Gly Arg
 20 25 30
 Lys Phe Ser Gln Ile Thr Thr Ser Leu Met Ala Ser Val Ser Ser Ala
 35 40 45
 Ser Met Val Ser Arg Arg Arg Arg Pro Leu Pro Lys His Pro Val Thr
 50 55 60
 Thr Thr Ser Thr Ala Thr Ala Leu Leu Gly Thr Ser Ser Thr Trp Ser
 65 70 75 80
 Lys Ser

<210> 2142

<211> 53

<212> PRT

<213> Homo sapiens

<400> 2142

Met Gly Gln Arg Gly Val Phe Leu Leu Ile Leu Asp Ala Phe Ser Val
1 5 10 15

Pro Ser Thr Ala Ser Cys Leu Ile Thr Pro Leu Pro Pro Pro His Pro
20 25 30

Gln Pro Ser Gln Phe Phe Leu Ala Ser Ala Leu Gln Pro Tyr Leu Gly
35 40 45

Lys Glu Glu Trp Val
50

<210> 2143

<211> 53

<212> PRT

<213> Homo sapiens

<400> 2143

Met Gly Gln Arg Gly Val Phe Leu Leu Ile Leu Asp Ala Phe Ser Val
1 5 10 15

Pro Ser Thr Ala Ser Cys Leu Ile Thr Pro Leu Pro Pro Pro His Pro
20 25 30

Gln Pro Ser Gln Phe Phe Leu Ala Ser Ala Leu Gln Pro Tyr Leu Gly
35 40 45

Lys Glu Glu Trp Val
50

<210> 2144

<211> 53

<212> PRT

<213> Homo sapiens

<400> 2144

Met Gly Gln Arg Gly Val Phe Leu Leu Ile Leu Asp Ala Phe Ser Val
1 5 10 15

Pro Ser Thr Ala Ser Cys Leu Ile Thr Pro Leu Pro Pro Pro His Pro
20 25 30

Gln Pro Ser Gln Phe Phe Leu Ala Ser Ala Leu Gln Pro Tyr Leu Gly
35 40 45

Lys Glu Glu Trp Val
50

<210> 2145

<211> 97

<212> PRT

<213> Homo sapiens

<400> 2145

Met Leu Trp Lys Leu Lys Leu Ser Arg Cys Trp Leu Asp Leu Thr Leu
 1 5 10 15

Leu Ile Phe Ser Gln Ile Ser His Met Asp Gln Ile Ile Phe Phe Phe
 20 25 30

Val Val Tyr Pro Ile Leu Asn Asn Ile Phe Ser Leu Asn Tyr Cys Arg
 35 40 45

Asp Phe Phe Cys Gly Gly Tyr Phe Leu Phe Cys Ser Lys Ile Ile Arg
 50 55 60

Cys Lys Ala Ile Leu Cys Leu Thr Val Ala Leu Ser Lys Gln Leu Cys
 65 70 75 80

Ser Gly Val Ala Phe Asp Val Leu Glu Phe Asp Tyr Met Gln Ser Cys
 85 90 95

Ile

<210> 2146

<211> 122

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (63)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (99)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (122)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2146

Met Met Thr Met Thr Ser Asp Arg Trp Phe Ser Met Ala Trp Ala Ser
 1 5 10 15

Cys Ser Leu Ser Arg Pro Pro Leu Thr Pro Ser Cys Ser Cys Gln Gln
 20 25 30

Pro Ala Thr Val Ala Leu Leu Leu Gln Thr Ile Ser Val Cys Ser Ala
 35 40 45

Gln Gln Ala Asp Pro Leu Ser Pro Pro Arg Ala Cys Arg Pro Xaa Arg
 50 55 60

Gln Phe Pro Val Leu Gln Ser Ala Gly Pro Pro His Ser Pro His Val
 65 70 75 80

Tyr Ala Phe Val Leu Phe Pro Val Ser Ser Arg Trp Gln Gly Gly Asp
 85 90 95

Phe Cys Xaa Ile Cys Cys Cys Phe Pro Gln Cys Leu Gly Arg Cys Leu
 100 105 110

Glu His Thr Arg Cys Ser Ile Asn Pro Xaa
 115 120

<210> 2147
 <211> 99
 <212> PRT
 <213> Homo sapiens

<400> 2147
 Met Glu Gly Pro Arg Gly Trp Leu Val Leu Cys Val Leu Ala Ile Ser
 1 5 10 15

Leu Ala Ser Met Val Thr Glu Asp Leu Cys Arg Ala Pro Asp Gly Lys
 20 25 30

Lys Gly Glu Ala Gly Arg Pro Gly Arg Arg Gly Arg Pro Gly Leu Lys
 35 40 45

Gly Glu Gln Gly Glu Pro Gly Ala Pro Gly Ile Arg Thr Gly Ile Gln
 50 55 60

Gly Leu Lys Gly Asp Gln Gly Glu Pro Gly Pro Ser Gly Asn Pro Gly
 65 70 75 80

Lys Val Gly Tyr Pro Gly Pro Ser Gly Pro Leu Arg Ser Pro Trp His
 85 90 95

Pro Gly Asn

<210> 2148
 <211> 245
 <212> PRT
 <213> Homo. sapiens

<400> 2148
 Met Glu Gly Pro Arg Gly Trp Leu Val Leu Cys Val Leu Ala Ile Ser
 1 5 10 15

Leu Ala Ser Met Val Thr Glu Asp Leu Cys Arg Ala Pro Asp Gly Lys
 20 25 30

Lys Gly Glu Ala Gly Arg Pro Gly Arg Arg Gly Arg Pro Gly Leu Lys
 35 40 45

Gly Glu Gln Gly Glu Pro Gly Ala Pro Gly Ile Arg Thr Gly Ile Gln
 50 55 60

Gly Leu Lys Gly Asp Gln Gly Glu Pro Gly Pro Ser Gly Asn Pro Gly
 65 70 75 80

Lys Val Gly Tyr Pro Gly Pro Ser Gly Pro Leu Gly Ala Arg Gly Ile
 85 90 95
 Pro Gly Ile Lys Gly Thr Lys Gly Ser Pro Gly Asn Ile Lys Asp Gln
 100 105 110
 Pro Arg Pro Ala Phe Ser Ala Ile Arg Arg Asn Pro Pro Met Gly Gly
 115 120 125
 Asn Val Val Ile Phe Asp Thr Val Ile Thr Asn Gln Glu Glu Pro Tyr
 130 135 140
 Gln Asn His Ser Gly Arg Phe Val Cys Thr Val Pro Gly Tyr Tyr Tyr
 145 150 155 160
 Phe Thr Phe Gln Val Leu Ser Gln Trp Glu Ile Cys Leu Ser Ile Val
 165 170 175
 Ser Ser Ser Arg Gly Gln Val Arg Arg Ser Leu Gly Phe Cys Asp Thr
 180 185 190
 Thr Asn Lys Gly Leu Phe Gln Val Val Ser Gly Gly Met Val Leu Gln
 195 200 205
 Leu Gln Gln Gly Asp Gln Val Trp Val Glu Lys Asp Pro Lys Lys Gly
 210 215 220
 His Ile Tyr Gln Gly Ser Glu Ala Asp Ser Val Phe Ser Gly Phe Leu
 225 230 235 240
 Ile Phe Pro Ser Ala
 245

<210> 2149
 <211> 57
 <212> PRT
 <213> Homo sapiens

<400> 2149
 Met Gly His Leu His Trp Gly Val Ser Gly Asn Phe Phe Phe Pro Arg
 1 5 10 15
 Leu Ser Leu Phe Leu Leu Phe Ala Trp Leu Gln Ile Thr Gln Ala Asn
 20 25 30
 Glu Pro Arg Leu Pro Gly Lys Tyr Ser Ile Lys Ala Ile Lys Ile Thr
 35 40 45
 Ile Cys Ile Thr Phe Arg Thr Ser Ala
 50 55

<210> 2150
 <211> 152
 <212> PRT
 <213> Homo sapiens

<400> 2150

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Met Gly Val His Val Gly Ala Ala Leu Gly Ala Leu Trp Phe Cys Leu
 1           5           10           15

Thr Gly Ala Leu Glu Val Gln Val Pro Glu Asp Pro Val Val Ala Leu
          20           25           30

Val Gly Thr Asp Ala Thr Leu Cys Cys Ser Phe Ser Pro Glu Pro Gly
          35           40           45

Phe Ser Leu Ala Gln Leu Asn Leu Ile Trp Gln Leu Thr Asp Thr Lys
 50           55           60

Gln Leu Val His Ser Phe Ala Glu Gly Gln Asp Gln Gly Ser Ala Tyr
 65           70           75           80

Ala Asn Arg Thr Ala Leu Phe Leu Asp Leu Leu Ala Gln Gly Asn Ala
          85           90           95

Ser Leu Arg Leu Gln Ser Val Arg Val Ala Asp Glu Gly Gln Leu His
          100          105          110

Leu Leu Arg Glu His Pro Gly Phe Arg Gln Arg Cys Arg Gln Pro Ala
          115          120          125

Gly Gly Arg Ser Leu Leu Glu Ala Gln His Asp Pro Gly Ala Gln Gln
          130          135          140

Gly Pro Ala Ala Arg Gly Thr Trp
145           150

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<210> 2151

<211> 302

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (128)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2151

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Met Arg Leu Gly Ser Pro Gly Leu Leu Phe Leu Leu Phe Ser Ser Leu
 1           5           10           15

Arg Ala Asp Thr Gln Glu Lys Glu Val Arg Ala Met Val Gly Ser Asp
          20           25           30

Val Glu Leu Ser Cys Ala Cys Pro Glu Gly Ser Arg Phe Asp Leu Asn
          35           40           45

Asp Val Tyr Val Tyr Trp Gln Thr Ser Glu Ser Lys Thr Val Val Thr
          50           55           60

Tyr His Ile Pro Gln Asn Ser Ser Leu Glu Asn Val Asp Ser Arg Tyr
 65           70           75           80

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Arg Asn Arg Ala Leu Met Ser Pro Ala Gly Met Leu Arg Gly Asp Phe
 85 90 95
 Ser Leu Arg Leu Phe Asn Val Thr Pro Gln Asp Glu Gln Lys Phe His
 100 105 110
 Cys Leu Val Leu Ser Gln Ser Leu Gly Phe Gln Glu Val Leu Ser Xaa
 115 120 125
 Glu Val Thr Leu His Val Ala Ala Asn Phe Ser Val Pro Val Val Ser
 130 135 140
 Ala Pro His Ser Pro Ser Gln Asp Glu Leu Thr Phe Thr Cys Thr Ser
 145 150 155 160
 Ile Asn Gly Tyr Pro Arg Pro Asn Val Tyr Trp Ile Asn Lys Thr Asp
 165 170 175
 Asn Ser Leu Leu Asp Gln Ala Leu Gln Asn Asp Thr Val Phe Leu Asn
 180 185 190
 Met Arg Gly Leu Tyr Asp Val Val Ser Val Leu Arg Ile Ala Arg Thr
 195 200 205
 Pro Ser Val Asn Ile Gly Cys Cys Ile Glu Asn Val Leu Leu Gln Gln
 210 215 220
 Asn Leu Thr Val Gly Ser Gln Thr Gly Asn Asp Ile Gly Glu Arg Asp
 225 230 235 240
 Lys Ile Thr Glu Asn Pro Val Ser Thr Gly Glu Lys Asn Ala Ala Thr
 245 250 255
 Trp Ser Ile Leu Ala Val Leu Cys Leu Leu Val Val Val Ala Val Ala
 260 265 270
 Ile Gly Trp Val Cys Arg Asp Arg Cys Leu Gln His Ser Tyr Ala Gly
 275 280 285
 Ala Trp Ala Val Ser Pro Glu Thr Glu Leu Thr Gly His Val
 290 295 300

<210> 2152

<211> 316

<212> PRT

<213> Homo sapiens

<400> 2152

Met Leu Arg Arg Arg Gly Ser Pro Gly Met Gly Val His Val Gly Ala
 1 5 10 15
 Ala Leu Gly Ala Leu Trp Phe Cys Leu Thr Gly Ala Leu Glu Val Gln
 20 25 30
 Val Pro Glu Asp Pro Val Val Ala Leu Val Gly Thr Asp Ala Thr Leu
 35 40 45
 Cys Cys Ser Phe Ser Pro Glu Pro Gly Phe Ser Leu Ala Gln Leu Asn

1412

50 55 60
 Leu Ile Trp Gln Leu Thr Asp Thr Lys Gln Leu Val His Ser Phe Ala
 65 70 75 80
 Glu Gly Gln Asp Gln Gly Ser Ala Tyr Ala Asn Arg Thr Ala Leu Phe
 85 90 95
 Pro Asp Leu Leu Ala Gln Gly Asn Ala Ser Leu Arg Leu Gln Arg Val
 100 105 110
 Arg Val Ala Asp Glu Gly Ser Phe Thr Cys Phe Val Ser Ile Arg Asp
 115 120 125
 Phe Gly Ser Ala Ala Val Ser Leu Gln Val Ala Ala Pro Tyr Ser Lys
 130 135 140
 Pro Ser Met Thr Leu Glu Pro Asn Lys Asp Leu Arg Pro Gly Asp Thr
 145 150 155 160
 Val Thr Ile Thr Cys Ser Ser Tyr Gln Gly Tyr Pro Glu Ala Glu Val
 165 170 175
 Phe Trp Gln Asp Gly Gln Gly Val Pro Leu Thr Gly Asn Val Thr Thr
 180 185 190
 Ser Gln Met Ala Asn Glu Gln Gly Leu Phe Asp Val His Ser Ile Leu
 195 200 205
 Arg Val Val Leu Gly Ala Asn Gly Thr Tyr Ser Cys Leu Val Arg Asn
 210 215 220
 Pro Val Leu Gln Gln Asp Ala His Ser Ser Val Thr Ile Thr Gly Gln
 225 230 235 240
 Pro Met Thr Phe Pro Pro Glu Ala Leu Trp Val Thr Val Gly Leu Ser
 245 250 255
 Val Cys Leu Ile Ala Leu Leu Val Ala Leu Ala Phe Val Cys Trp Arg
 260 265 270
 Lys Ile Lys Gln Ser Cys Glu Glu Glu Asn Ala Gly Ala Glu Asp Gln
 275 280 285
 Asp Gly Glu Gly Glu Gly Ser Lys Thr Ala Leu Gln Pro Leu Lys His
 290 295 300
 Ser Asp Ser Lys Glu Asp Asp Gly Gln Glu Ile Ala
 305 310 315

<210> 2153

<211> 831

<212> PRT

<213> Homo sapiens

<400> 2153

Met Lys Val His Met His Thr Lys Phe Cys Leu Ile Cys Leu Leu Thr
 1 5 10 15

Phe Ile Phe His His Cys Asn His Cys His Glu Glu His Asp His Gly
 20 25 30
 Pro Glu Ala Leu His Arg Gln His Arg Gly Met Thr Glu Leu Glu Pro
 35 40 45
 Ser Lys Phe Ser Lys Gln Ala Ala Glu Asn Glu Lys Lys Tyr Tyr Ile
 50 55 60
 Glu Lys Leu Phe Glu Arg Tyr Gly Glu Asn Gly Arg Leu Ser Phe Phe
 65 70 75 80
 Gly Leu Glu Lys Leu Leu Thr Asn Leu Gly Leu Gly Glu Arg Lys Val
 85 90 95
 Val Glu Ile Asn His Glu Asp Leu Gly His Asp His Val Ser His Leu
 100 105 110
 Asp Ile Leu Ala Val Gln Glu Gly Lys His Phe His Ser His Asn His
 115 120 125
 Gln His Ser His Asn His Leu Asn Ser Glu Asn Gln Thr Val Thr Ser
 130 135 140
 Val Ser Thr Lys Arg Asn His Lys Cys Asp Pro Glu Lys Glu Thr Val
 145 150 155 160
 Glu Val Ser Val Lys Ser Asp Asp Lys His Met His Asp His Asn His
 165 170 175
 Arg Leu Arg His His His Arg Leu His His His Leu Asp His Asn Asn
 180 185 190
 Thr His His Phe His Asn Asp Ser Ile Thr Pro Ser Glu Arg Gly Glu
 195 200 205
 Pro Ser Asn Glu Pro Ser Thr Glu Thr Asn Lys Thr Gln Glu Gln Ser
 210 215 220
 Asp Val Lys Leu Pro Lys Gly Lys Arg Lys Lys Lys Gly Arg Lys Ser
 225 230 235 240
 Asn Glu Asn Ser Glu Val Ile Thr Pro Gly Phe Pro Pro Asn His Asp
 245 250 255
 Gln Gly Glu Gln Tyr Glu His Asn Arg Val His Lys Pro Asp Arg Val
 260 265 270
 His Asn Pro Gly His Ser His Val His Leu Pro Glu Arg Asn Gly His
 275 280 285
 Asp Pro Gly Arg Gly His Gln Asp Leu Asp Pro Asp Asn Glu Gly Glu
 290 295 300
 Leu Arg His Thr Arg Lys Arg Glu Ala Pro His Val Lys Asn Asn Ala
 305 310 315 320
 Ile Ile Ser Leu Arg Lys Asp Leu Asn Glu Asp Asp His His His Glu
 325 330 335

Cys Leu Asn Val Thr Gln Leu Leu Lys Tyr Tyr Gly His Gly Ala Asn
 340 345 350
 Ser Pro Ile Ser Thr Asp Leu Phe Thr Tyr Leu Cys Pro Ala Leu Leu
 355 360 365
 Tyr Gln Ile Asp Ser Arg Leu Cys Ile Glu His Phe Asp Lys Leu Leu
 370 375 380
 Val Glu Asp Ile Asn Lys Asp Lys Asn Leu Val Pro Glu Asp Glu Ala
 385 390 395 400
 Asn Ile Gly Ala Ser Ala Trp Ile Cys Gly Ile Ile Ser Ile Thr Val
 405 410 415
 Ile Ser Leu Leu Ser Leu Leu Gly Val Ile Leu Val Pro Ile Ile Asn
 420 425 430
 Gln Gly Cys Phe Lys Phe Leu Leu Thr Phe Leu Val Ala Leu Ala Val
 435 440 445
 Gly Thr Met Ser Gly Asp Ala Leu Leu His Leu Leu Pro His Ser Gln
 450 455 460
 Gly Gly His Asp His Ser His Gln His Ala His Gly His Gly His Ser
 465 470 475 480
 His Gly His Glu Ser Asn Lys Phe Leu Glu Glu Tyr Asp Ala Val Leu
 485 490 495
 Lys Gly Leu Val Ala Leu Gly Gly Ile Tyr Leu Leu Phe Ile Ile Glu
 500 505 510
 His Cys Ile Arg Met Phe Lys His Tyr Lys Gln Gln Arg Gly Lys Gln
 515 520 525
 Lys Trp Phe Met Lys Gln Asn Thr Glu Glu Ser Thr Ile Gly Arg Lys
 530 535 540
 Leu Ser Asp His Lys Leu Asn Asn Thr Pro Asp Ser Asp Trp Leu Gln
 545 550 555 560
 Leu Lys Pro Leu Ala Gly Thr Asp Asp Ser Val Val Ser Glu Asp Arg
 565 570 575
 Leu Asn Glu Thr Glu Leu Thr Asp Leu Glu Gly Gln Gln Glu Ser Pro
 580 585 590
 Pro Lys Asn Tyr Leu Cys Ile Glu Glu Glu Lys Ile Ile Asp His Ser
 595 600 605
 His Ser Asp Gly Leu His Thr Ile His Glu His Asp Leu His Ala Ala
 610 615 620
 Ala His Asn His His Gly Glu Asn Lys Thr Val Leu Arg Lys His Asn
 625 630 635 640
 His Gln Trp His His Lys His Ser His His Ser His Gly Pro Cys His
 645 650 655

Ser Gly Ser Asp Leu Lys Glu Thr Gly Ile Ala Asn Ile Ala Trp Met
 660 665 670
 Val Ile Met Gly Asp Gly Ile His Asn Phe Ser Asp Gly Leu Ala Ile
 675 680 685
 Gly Ala Ala Phe Ser Ala Gly Leu Thr Gly Gly Ile Ser Thr Ser Ile
 690 695 700
 Ala Val Phe Cys His Glu Leu Pro His Glu Leu Gly Asp Phe Ala Val
 705 710 715 720
 Leu Leu Lys Ala Gly Met Thr Val Lys Gln Ala Ile Val Tyr Asn Leu
 725 730 735
 Leu Ser Ala Met Met Ala Tyr Ile Gly Met Leu Ile Gly Thr Ala Val
 740 745 750
 Gly Gln Tyr Ala Asn Asn Ile Thr Leu Trp Ile Phe Ala Val Thr Ala
 755 760 765
 Gly Met Phe Leu Tyr Val Ala Leu Val Asp Met Leu Pro Glu Met Leu
 770 775 780
 His Gly Asp Gly Asp Asn Glu Glu His Gly Phe Cys Pro Val Gly Gln
 785 790 795 800
 Phe Ile Leu Gln Asn Leu Gly Leu Leu Phe Gly Phe Ala Ile Met Leu
 805 810 815
 Val Ile Ala Leu Tyr Glu Asp Lys Ile Val Phe Asp Ile Gln Phe
 820 825 830

<210> 2154

<211> 480

<212> PRT

<213> Homo sapiens

<400> 2154

Met Leu Phe Arg Asn Arg Phe Leu Leu Leu Leu Ala Leu Ala Ala Leu
 1 5 10 15
 Leu Ala Phe Val Ser Leu Ser Leu Gln Phe Phe His Leu Ile Pro Val
 20 25 30
 Ser Thr Pro Lys Asn Gly Met Ser Ser Lys Ser Arg Lys Arg Ile Met
 35 40 45
 Pro Asp Pro Val Thr Glu Pro Pro Val Thr Asp Pro Val Tyr Glu Ala
 50 55 60
 Leu Leu Tyr Cys Asn Ile Pro Ser Val Ala Glu Arg Ser Met Glu Gly
 65 70 75 80
 His Ala Pro His His Phe Lys Leu Val Ser Val His Val Phe Ile Arg
 85 90 95

His Gly Asp Arg Tyr Pro Leu Tyr Val Ile Pro Lys Thr Lys Arg Pro
 100 105 110
 Glu Ile Asp Cys Thr Leu Val Ala Asn Arg Lys Pro Tyr His Pro Lys
 115 120 125
 Leu Glu Ala Phe Ile Ser His Met Ser Lys Gly Ser Gly Ala Ser Phe
 130 135 140
 Glu Ser Pro Leu Asn Ser Leu Pro Leu Tyr Pro Asn His Pro Leu Cys
 145 150 155 160
 Glu Met Gly Glu Leu Thr Gln Thr Gly Val Val Gln His Leu Gln Asn
 165 170 175
 Gly Gln Leu Leu Arg Asp Ile Tyr Leu Lys Lys His Lys Leu Leu Pro
 180 185 190
 Asn Asp Trp Ser Ala Asp Gln Leu Tyr Leu Glu Thr Thr Gly Lys Ser
 195 200 205
 Arg Thr Leu Gln Ser Gly Leu Ala Leu Leu Tyr Gly Phe Leu Pro Asp
 210 215 220
 Phe Asp Trp Lys Lys Ile Tyr Phe Arg His Gln Pro Ser Ala Leu Phe
 225 230 235 240
 Cys Ser Gly Ser Cys Tyr Cys Pro Val Arg Asn Gln Tyr Leu Glu Lys
 245 250 255
 Glu Gln Arg Arg Gln Tyr Leu Leu Arg Leu Lys Asn Ser Gln Leu Glu
 260 265 270
 Lys Thr Tyr Gly Glu Met Ala Lys Ile Val Asp Val Pro Thr Lys Gln
 275 280 285
 Leu Arg Ala Ala Asn Pro Ile Asp Ser Met Leu Cys His Phe Cys His
 290 295 300
 Asn Val Ser Phe Pro Cys Thr Arg Asn Gly Cys Val Asp Met Glu His
 305 310 315 320
 Phe Lys Val Ile Lys Thr His Gln Ile Glu Asp Glu Arg Glu Arg Arg
 325 330 335
 Glu Lys Lys Leu Tyr Phe Gly Tyr Ser Leu Leu Gly Ala His Pro Ile
 340 345 350
 Leu Asn Gln Thr Ile Gly Arg Met Gln Arg Ala Thr Glu Gly Arg Lys
 355 360 365
 Glu Glu Leu Phe Ala Leu Tyr Ser Ala His Asp Val Thr Leu Ser Pro
 370 375 380
 Val Leu Ser Ala Leu Gly Leu Ser Glu Ala Arg Phe Pro Arg Phe Ala
 385 390 395 400
 Ala Arg Leu Ile Phe Glu Leu Trp Gln Asp Arg Glu Lys Pro Ser Glu
 405 410 415

His Ser Val Arg Ile Leu Tyr Asn Gly Val Asp Val Thr Phe His Thr
 420 425 430

Ser Phe Cys Gln Asp His His Lys Arg Ser Pro Lys Pro Met Cys Pro
 435 440 445

Leu Glu Asn Leu Val Arg Phe Val Lys Arg Asp Met Phe Val Ala Leu
 450 455 460

Gly Gly Ser Gly Thr Asn Tyr Tyr Asp Ala Cys His Arg Glu Gly Phe
 465 470 475 480

<210> 2155

<211> 151

<212> PRT

<213> Homo sapiens

<400> 2155

Met Phe Leu Met Leu Gly Cys Ala Leu Pro Ile Tyr Asn Lys Tyr Trp
 1 5 10 15

Pro Leu Phe Val Leu Phe Phe Tyr Ile Leu Ser Pro Ile Pro Tyr Cys
 20 25 30

Ile Ala Arg Arg Leu Val Asp Asp Thr Asp Ala Met Ser Asn Ala Cys
 35 40 45

Lys Glu Leu Ala Ile Phe Leu Thr Thr Gly Ile Val Val Ser Ala Phe
 50 55 60

Gly Leu Pro Ile Val Phe Ala Arg Ala His Leu Met Gly Arg Leu Pro
 65 70 75 80

Phe Phe Ser Lys Met Gly Thr Ala Glu Ser Glu Gly Arg Glu Thr Leu
 85 90 95

Thr Gln Gln Leu Pro Leu Pro Ala Ala Ala Met Arg Arg Leu Leu Pro
 100 105 110

Ala Ser Arg Val Ser Thr Gln Pro Val Leu Arg Leu Ala Asp Ser Ala
 115 120 125

Glu Ser Leu Leu Gly Arg Pro Ala Leu Trp Ala Leu Gly Phe Leu Leu
 130 135 140

Cys Pro Pro Ser Gln Ala Gln
 145 150

<210> 2156

<211> 89

<212> PRT

<213> Homo sapiens

<400> 2156

Met Tyr Met Gln Asp Tyr Trp Arg Thr Trp Leu Lys Gly Leu Arg Gly
 1 5 10 15

Phe Phe Phe Val Gly Val Leu Phe Ser Ala Val Ser Ile Ala Ala Phe
 20 25 30

Cys Thr Phe Leu Val Leu Ala Ile Thr Arg His Gln Ser Leu Thr Asp
 35 40 45

Pro Thr Ser Tyr Tyr Leu Ser Ser Val Trp Ser Phe Ile Ser Phe Lys
 50 55 60

Trp Ala Phe Leu Leu Ser Leu Tyr Ala His Arg Tyr Arg Ala Asp Phe
 65 70 75 80

Ala Asp Ile Ser Ile Leu Ser Asp Phe
 85

<210> 2157

<211> 56

<212> PRT

<213> Homo sapiens

<400> 2157

Met Arg Gly His Ile Thr Thr Leu Leu Thr Thr Ser Phe Leu Val Phe
 1 5 10 15

Gly Leu His Ile Ile Phe Phe Leu Asn Ile Ser Cys Phe Asn Phe Arg
 20 25 30

Val Phe Ile Leu Phe Glu Thr Arg Pro Glu Asp Ser Arg Leu Tyr Arg
 35 40 45

Glu Arg Pro Val Leu Pro Arg Tyr
 50 55

<210> 2158

<211> 50

<212> PRT

<213> Homo sapiens

<400> 2158

Met Gln Val Lys Asn Ser Ile His Val Thr Phe Val Ala Arg Ile Leu
 1 5 10 15

Val Arg Val Leu Ile Cys Leu Ser Thr Ser Glu Ala Ile Leu Ala Arg
 20 25 30

Asn His Ile Tyr Val Val Ser Val Thr Asn Ala Ser Val Glu Val Gln
 35 40 45

Thr Ser
 50

<210> 2159
 <211> 50
 <212> PRT
 <213> Homo sapiens

<400> 2159
 Met Gln Val Lys Asn Ser Ile His Val Thr Phe Val Ala Arg Ile Leu
 1 5 10 15
 Val Arg Val Leu Ile Cys Leu Ser Thr Ser Glu Ala Ile Leu Ala Arg
 20 25 30
 Asn His Ile Tyr Val Val Ser Val Thr Asn Ala Ser Val Glu Val Gln
 35 40 45
 Thr Ser
 50

<210> 2160
 <211> 81
 <212> PRT
 <213> Homo sapiens

<400> 2160
 Met Arg Leu Leu Val Leu Ser Ser Leu Leu Cys Ile Leu Leu Leu Cys
 1 5 10 15
 Phe Ser Ile Phe Ser Thr Glu Gly Lys Arg Arg Pro Ala Lys Ala Trp
 20 25 30
 Ser Gly Arg Arg Thr Arg Leu Cys Cys His Arg Val Pro Ser Pro Asn
 35 40 45
 Ser Thr Asn Leu Lys Gly His His Val Arg Leu Cys Lys Pro Cys Lys
 50 55 60
 Leu Glu Pro Glu Pro Arg Leu Trp Val Val Pro Gly Ala Leu Pro Gln
 65 70 75 80
 Val

<210> 2161
 <211> 73
 <212> PRT
 <213> Homo sapiens

<400> 2161
 Met Asn Ile Thr Arg Lys Leu Trp Ser Arg Thr Phe Asn Cys Ser Val
 1 5 10 15
 Pro Cys Ser Asp Thr Val Pro Val Ile Ala Val Ser Val Phe Ile Leu
 20 25 30
 Phe Leu Pro Val Val Phe Tyr Leu Ser Ser Phe Leu His Ser Glu Gln

35 40 45
 Lys Lys Arg Lys Leu Ile Leu Pro Lys Arg Leu Lys Ser Ser Thr Ser
 50 55 60

Phe Ala Asn Ile Gln Glu Asn Ser Asn
 65 70

<210> 2162
 <211> 193
 <212> PRT
 <213> Homo sapiens

<400> 2162
 Met Glu Pro Gly Pro Thr Ala Ala Gln Arg Arg Cys Ser Leu Pro Pro
 1 5 10 15

Trp Leu Pro Leu Gly Leu Leu Leu Trp Ser Gly Leu Ala Leu Gly Ala
 20 25 30

Leu Pro Phe Gly Ser Ser Pro His Arg Val Phe His Asp Leu Leu Ser
 35 40 45

Glu Gln Gln Leu Leu Glu Val Glu Asp Leu Ser Leu Ser Leu Leu Gln
 50 55 60

Gly Gly Gly Leu Gly Pro Leu Ser Leu Pro Pro Asp Leu Pro Asp Leu
 65 70 75 80

Asp Pro Glu Cys Arg Glu Leu Leu Leu Asp Phe Ala Asn Ser Ser Ala
 85 90 95

Glu Leu Thr Gly Cys Leu Val Arg Ser Ala Arg Pro Val Arg Leu Cys
 100 105 110

Gln Thr Cys Tyr Pro Leu Phe Gln Gln Val Val Ser Lys Met Asp Asn
 115 120 125

Ile Ser Arg Ala Ala Gly Asn Thr Ser Glu Ser Gln Ser Cys Ala Arg
 130 135 140

Ser Leu Leu Met Ala Asp Arg Met Gln Ile Val Val Ile Leu Ser Glu
 145 150 155 160

Phe Phe Asn Thr Thr Trp Gln Glu Ala Asn Cys Ala Asn Cys Leu Thr
 165 170 175

Asn Asn Ser Glu Glu Leu Ser Asn Ser Thr Val Tyr Phe Leu Lys Ser
 180 185 190

Ile

<210> 2163
 <211> 134
 <212> PRT

<213> Homo sapiens

<400> 2163

Met Ala Pro Glu Val Met Glu Gln Val Arg Gly Tyr Asp Phe Lys Ala
 1 5 10 15

Asp Ile Trp Ser Phe Gly Ile Thr Ala Ile Glu Leu Ala Thr Gly Ala
 20 25 30

Ala Pro Tyr His Lys Tyr Pro Pro Met Lys Val Leu Met Leu Thr Leu
 35 40 45

Gln Asn Asp Pro Pro Ser Leu Glu Thr Gly Val Gln Asp Lys Glu Met
 50 55 60

Leu Lys Lys Tyr Gly Lys Ser Phe Arg Lys Met Ile Ser Leu Cys Leu
 65 70 75 80

Gln Lys Asp Pro Glu Lys Arg Pro Thr Ala Ala Glu Leu Leu Arg His
 85 90 95

Lys Phe Phe Gln Lys Ala Lys Asn Lys Glu Phe Leu Gln Glu Lys Thr
 100 105 110

Leu Gln Arg Ala Pro Thr Ile Ser Glu Arg Ala Lys Lys Val Arg Arg
 115 120 125

Val Pro Gly Ser Cys Pro
 130

<210> 2164

<211> 334

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (105)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2164

Met Glu Pro Gly Pro Thr Ala Ala Gln Arg Arg Cys Ser Leu Pro Pro
 1 5 10 15

Trp Leu Pro Leu Gly Leu Leu Leu Trp Ser Gly Leu Ala Leu Gly Ala
 20 25 30

Leu Pro Phe Gly Ser Ser Pro His Arg Val Phe His Asp Leu Leu Ser
 35 40 45

Glu Gln Gln Leu Leu Glu Val Glu Asp Leu Ser Leu Ser Leu Leu Gln
 50 55 60

Gly Gly Gly Leu Gly Pro Leu Ser Leu Pro Pro Asp Leu Pro Asp Leu
 65 70 75 80

Asp Pro Glu Cys Arg Glu Leu Leu Leu Asp Phe Ala Asn Ser Ser Ala
 85 90 95

Glu Leu Thr Gly Cys Leu Val Arg Xaa Ala Arg Pro Val Arg Leu Cys
 100 105 110
 Gln Thr Cys Tyr Pro Leu Phe Gln Gln Val Val Ser Lys Met Asp Asn
 115 120 125
 Ile Ser Arg Ala Ala Gly Asn Thr Ser Glu Ser Gln Ser Cys Ala Arg
 130 135 140
 Ser Leu Leu Met Ala Asp Arg Met Gln Ile Val Val Ile Leu Ser Glu
 145 150 155 160
 Phe Phe Asn Thr Thr Trp Gln Glu Ala Asn Cys Ala Asn Cys Leu Thr
 165 170 175
 Asn Asn Ser Glu Glu Leu Ser Asn Ser Thr Val Tyr Phe Leu Asn Leu
 180 185 190
 Phe Asn His Thr Leu Thr Cys Phe Glu His Asn Leu Gln Gly Asn Ala
 195 200 205
 His Ser Leu Leu Gln Thr Lys Asn Tyr Ser Glu Val Cys Lys Asn Cys
 210 215 220
 Arg Glu Ala Tyr Lys Thr Leu Ser Ser Leu Tyr Ser Glu Met Gln Lys
 225 230 235 240
 Met Asn Glu Leu Glu Asn Lys Ala Glu Pro Gly Thr His Leu Cys Ile
 245 250 255
 Asp Val Glu Asp Ala Met Asn Ile Thr Arg Lys Leu Trp Ser Arg Thr
 260 265 270
 Phe Asn Cys Ser Val Pro Cys Ser Asp Thr Val Pro Val Ile Ala Val
 275 280 285
 Ser Val Phe Ile Leu Phe Leu Pro Val Val Phe Tyr Leu Ser Ser Phe
 290 295 300
 Leu His Ser Glu Gln Lys Lys Arg Lys Leu Ile Leu Pro Lys Arg Leu
 305 310 315 320
 Lys Ser Ser Thr Ser Phe Ala Asn Ile Gln Glu Asn Ser Asn
 325 330

<210> 2165

<211> 49

<212> PRT

<213> Homo sapiens

<400> 2165

Met Val Leu Val Phe Ala Tyr Leu Cys Val Leu Leu Ile Val Cys Trp
 1 5 10 15
 Val Thr Ser Lys Thr Ser Leu Ala Leu Lys Tyr Thr Val Tyr Lys Asn
 20 25 30

Phe Lys Arg Leu Ile Trp Asn Lys Ser Ile Leu Ile Ile Thr Leu Thr
 35 40 45

Pro

<210> 2166

<211> 75

<212> PRT

<213> Homo sapiens

<400> 2166

Met Ser Leu Ser Ile Leu Val Ala Leu Ser Leu Gln Ile Leu Phe Leu
 1 5 10 15

Phe Thr Ile Leu Lys Cys Met Leu Ala Lys Trp Val Asp Phe Gln Ile
 20 25 30

Lys Cys Ser Phe His Lys Ser Phe Val Met Val Phe Trp Ser Glu Met
 35 40 45

His Phe His Phe Ser Phe Leu Phe Leu Leu Ser Ile Leu Ser Phe Phe
 50 55 60

Pro Asn Lys Ile Tyr Pro Gly Asp Tyr Ile Cys
 65 70 75

<210> 2167

<211> 86

<212> PRT

<213> Homo sapiens

<400> 2167

Met Leu Trp Ala Leu Asp Ser Leu Leu Phe Phe Ser His Ala Gln Leu
 1 5 10 15

Val Pro Leu Gly Gly Gly Glu Glu Trp Gly Ser Pro Gly Leu Gly Leu
 20 25 30

His Ser Ile Ile Pro Ser Gln Ala Ser Gln Gly Val Ser Ala Pro Ala
 35 40 45

Gln Asp Leu Ala Gly Arg Ala Pro Tyr Arg Glu Ser Leu Gly Arg Leu
 50 55 60

Ser Arg Leu Met Ala Gly Pro Ala Arg Gly Val Leu Arg Pro Ala Leu
 65 70 75 80

Arg Thr Cys Pro Leu Phe
 85

<210> 2168

<211> 152

<212> PRT

<213> Homo sapiens

<400> 2168

Met Arg Arg Leu Leu Leu Val Thr Ser Leu Val Val Val Leu Leu Trp
 1 5 10 15

Glu Ala Gly Ala Val Pro Ala Pro Lys Val Pro Ile Lys Met Gln Val
 20 25 30

Lys His Trp Pro Ser Glu Gln Asp Pro Glu Asn Arg Ala Trp Gly Ala
 35 40 45

Arg Val Val Glu Pro Pro Glu Lys Asp Asp Gln Leu Val Val Leu Phe
 50 55 60

Pro Val Gln Lys Pro Lys Leu Leu Thr Thr Glu Glu Lys Pro Arg Gly
 65 70 75 80

Gln Gly Arg Gly Pro Ile Leu Pro Gly Thr Lys Ala Trp Met Glu Thr
 85 90 95

Glu Asp Thr Leu Gly Arg Val Leu Ser Pro Glu Pro Asp His Asp Ser
 100 105 110

Leu Tyr His Pro Pro Pro Glu Glu Asp Gln Gly Glu Glu Arg Pro Arg
 115 120 125

Leu Trp Val Met Pro Asn His Gln Val Leu Leu Gly Pro Glu Glu Asp
 130 135 140

Gln Asp His Ile Tyr His Pro Gln
 145 150

<210> 2169

<211> 142

<212> PRT

<213> Homo sapiens

<400> 2169

Met Arg Arg Leu Leu Leu Val Thr Ser Leu Val Val Val Leu Leu Trp
 1 5 10 15

Glu Ala Gly Ala Val Pro Ala Pro Lys Val Pro Ile Lys Met Gln Val
 20 25 30

Lys His Trp Pro Ser Glu Gln Asp Pro Glu Lys Ala Trp Gly Ala Arg
 35 40 45

Val Val Glu Pro Pro Glu Lys Asp Asp Gln Leu Val Val Leu Phe Pro
 50 55 60

Val Gln Lys Pro Lys Leu Leu Thr Thr Glu Glu Lys Pro Arg Gly Thr
 65 70 75 80

Lys Ala Trp Met Glu Thr Glu Asp Thr Leu Gly Arg Val Leu Ser Pro
 85 90 95

Glu Pro Asp His Asp Ser Leu Tyr His Pro Pro Pro Glu Glu Asp Gln
 1425

100 105 110
 Gly Glu Glu Arg Pro Arg Leu Trp Val Met Pro Asn His Gln Val Leu
 115 120 125
 Leu Gly Pro Glu Glu Asp Gln Asp His Ile Tyr His Pro Gln
 130 135 140

 <210> 2170
 <211> 453
 <212> PRT
 <213> Homo sapiens

 <400> 2170
 Met Lys Leu Leu Val Ile Leu Ile Phe Ser Gly Leu Ile Thr Cys Cys
 1 5 10 15
 Gly Gly Asn Ser Ser His Ser Leu Pro Ser Lys Leu Leu Leu Val Ser
 20 25 30
 Phe Asp Gly Phe Arg Ala Asp Tyr Leu Gln Asn Tyr Glu Phe Pro His
 35 40 45
 Leu Gln Asn Phe Ile Lys Glu Gly Val Leu Val Glu His Val Lys Asn
 50 55 60
 Val Phe Ile Thr Lys Thr Phe Pro Asn His Tyr Ser Ile Val Thr Gly
 65 70 75 80
 Leu Tyr Glu Glu Ser His Gly Ile Val Ala Asn Ser Met Tyr Asp Val
 85 90 95
 Ile Thr Lys Lys His Phe Ser Asp Phe Asp Asp Lys Asp Pro Phe Trp
 100 105 110
 Trp Asn Glu Ala Val Pro Ile Trp Val Thr Asn Gln Leu Gln Glu Asn
 115 120 125
 Arg Ser Ser Ala Ala Ala Met Trp Pro Gly Thr Asp Val Pro Ile His
 130 135 140
 Asn Thr Thr Pro Ser Tyr Phe Met Asn Tyr Ser Ser Ser Val Ser Phe
 145 150 155 160
 Glu Glu Arg Leu Asn Asn Ile Thr Met Trp Leu Met Asn Ser Asn Pro
 165 170 175
 Pro Val Thr Phe Ala Thr Leu Tyr Trp Glu Glu Pro Asp Ala Ser Gly
 180 185 190
 His Lys Tyr Gly Pro Glu Asp Lys Glu Asn Met Tyr Arg Val Leu Lys
 195 200 205
 Glu Val Asp Asp Leu Ile Gly Glu Leu Val His Lys Leu Lys Val Leu
 210 215 220
 Gly Leu Trp Glu Asn Leu Asn Val Ile Ile Thr Ser Asp His Gly Met
 225 230 235 240

Thr Gln Cys Ser Lys Asp Lys Leu Ile Asn Leu Asp Leu Cys Ile Asp
 245 250 255
 Arg Ser Ser Tyr Thr Leu Val Asp Leu Thr Pro Val Ala Ala Val Leu
 260 265 270
 Pro Lys Ile Asn Thr Thr Glu Val Tyr Asn Lys Leu Lys Val Cys Asn
 275 280 285
 Pro His Met Asn Val Tyr Leu Lys Glu Asp Ile Pro Ala Arg Phe His
 290 295 300
 Tyr Gln His Asn Asp Arg Ile Gln Pro Ile Ile Leu Val Ala Asp Glu
 305 310 315 320
 Gly Trp Thr Ile Val Leu Asn Lys Ser Leu Pro Lys Leu Gly Asp His
 325 330 335
 Gly Tyr Asp Asn Ser Leu Ser Ser Met His Pro Phe Leu Ala Ala His
 340 345 350
 Gly Pro Ala Phe His Lys Gly Tyr Lys His Ser Thr Ile Asn Ser Val
 355 360 365
 Asp Ile Tyr Pro Met Met Cys His Ile Leu Gly Leu Lys Pro His Pro
 370 375 380
 Asn Asn Gly Thr Phe Gly His Thr Lys Cys Leu Leu Val Asp Gln Trp
 385 390 395 400
 Cys Ile Asn Leu Pro Glu Ala Ile Gly Ile Val Ile Gly Ala Leu Leu
 405 410 415
 Val Leu Thr Thr Leu Thr Cys Leu Ile Ile Ile Met Gln Asn Arg Leu
 420 425 430
 Ser Val Pro Arg Pro Phe Ser Arg Leu Gln Leu Gln Glu Asp Asp Asp
 435 440 445
 Asp Pro Leu Ile Glu
 450

<210> 2171

<211> 287

<212> PRT

<213> Homo sapiens

<400> 2171

Met Gly Ala Leu Arg Pro Thr Leu Leu Pro Pro Ser Leu Pro Leu Leu
 1 5 10 15
 Leu Leu Leu Met Leu Gly Met Gly Cys Trp Ala Arg Glu Val Leu Val
 20 25 30
 Pro Glu Gly Pro Leu Tyr Arg Val Ala Gly Thr Ala Val Ser Ile Ser
 35 40 45

Cys Asn Val Thr Gly Tyr Glu Gly Pro Ala Gln Gln Asn Phe Glu Trp
 50 55 60
 Phe Leu Tyr Arg Pro Glu Ala Pro Asp Thr Ala Leu Gly Ile Val Ser
 65 70 75 80
 Thr Lys Asp Thr Gln Phe Ser Tyr Ala Val Phe Lys Ser Arg Val Val
 85 90 95
 Ala Gly Glu Val Gln Val Gln Arg Leu Gln Gly Asp Ala Val Val Leu
 100 105 110
 Lys Ile Ala Arg Leu Gln Ala Gln Asp Ala Gly Ile Tyr Glu Cys His
 115 120 125
 Thr Pro Ser Thr Asp Thr Arg Tyr Leu Gly Ser Tyr Ser Gly Lys Val
 130 135 140
 Glu Leu Arg Val Leu Pro Asp Val Leu Gln Val Ser Ala Ala Pro Pro
 145 150 155 160
 Gly Pro Arg Gly Arg Gln Ala Pro Thr Ser Pro Pro Arg Met Thr Val
 165 170 175
 His Glu Gly Gln Glu Leu Ala Leu Gly Cys Leu Ala Arg Thr Ser Thr
 180 185 190
 Gln Lys His Thr His Leu Ala Val Ser Phe Gly Arg Ser Val Pro Glu
 195 200 205
 Ala Pro Val Gly Arg Ser Thr Leu Gln Glu Val Val Gly Ile Arg Ser
 210 215 220
 Asp Leu Ala Val Glu Ala Gly Ala Pro Tyr Ala Glu Arg Leu Ala Ala
 225 230 235 240
 Gly Glu Leu Arg Leu Gly Lys Glu Gly Thr Asp Arg Tyr Arg Met Val
 245 250 255
 Val Gly Gly Ala Gln Ala Gly Asp Ala Gly Thr Tyr His Cys Thr Ala
 260 265 270
 Ala Glu Trp Ile Gln Asp Pro Asp Gly Ser Trp Ala Gln Ile Ala
 275 280 285

<210> 2172

<211> 613

<212> PRT

<213> Homo sapiens

<400> 2172

Met Gly Ala Leu Arg Pro Thr Leu Leu Pro Pro Ser Leu Pro Leu Leu
 1 5 10 15

Leu Leu Leu Met Leu Gly Met Gly Cys Trp Ala Arg Glu Val Leu Val
 20 25 30

Pro Glu Gly Pro Leu Tyr Arg Val Ala Gly Thr Ala Val Ser Ile Ser

35	40	45																	
Cys	Asn	Val	Thr	Gly	Tyr	Glu	Gly	Pro	Ala	Gln	Gln	Asn	Phe	Glu	Trp				
50						55					60								
Phe	Leu	Tyr	Arg	Pro	Glu	Ala	Pro	Asp	Thr	Ala	Leu	Gly	Ile	Val	Ser				
65					70					75					80				
Thr	Lys	Asp	Thr	Gln	Phe	Ser	Tyr	Ala	Val	Phe	Lys	Ser	Arg	Val	Val				
				85					90					95					
Ala	Gly	Glu	Val	Gln	Val	Gln	Arg	Leu	Gln	Gly	Asp	Ala	Val	Val	Leu				
			100					105					110						
Lys	Ile	Ala	Arg	Leu	Gln	Ala	Gln	Asp	Ala	Gly	Ile	Tyr	Glu	Cys	His				
	115						120					125							
Thr	Pro	Ser	Thr	Asp	Thr	Arg	Tyr	Leu	Gly	Ser	Tyr	Ser	Gly	Lys	Val				
	130					135					140								
Glu	Leu	Arg	Val	Leu	Pro	Asp	Val	Leu	Gln	Val	Ser	Ala	Ala	Pro	Pro				
145					150					155					160				
Gly	Pro	Arg	Gly	Arg	Gln	Ala	Pro	Thr	Ser	Pro	Pro	Arg	Met	Thr	Val				
				165					170					175					
His	Glu	Gly	Gln	Glu	Leu	Ala	Leu	Gly	Cys	Leu	Ala	Arg	Thr	Ser	Thr				
			180					185					190						
Gln	Lys	His	Thr	His	Leu	Ala	Val	Ser	Phe	Gly	Arg	Ser	Val	Pro	Glu				
	195						200					205							
Ala	Pro	Val	Gly	Arg	Ser	Thr	Leu	Gln	Glu	Val	Val	Gly	Ile	Arg	Ser				
	210					215					220								
Asp	Leu	Ala	Val	Glu	Ala	Gly	Ala	Pro	Tyr	Ala	Glu	Arg	Leu	Ala	Ala				
225					230					235				240					
Gly	Glu	Leu	Arg	Leu	Gly	Lys	Glu	Gly	Thr	Asp	Arg	Tyr	Arg	Met	Val				
			245					250					255						
Val	Gly	Gly	Ala	Gln	Ala	Gly	Asp	Ala	Gly	Thr	Tyr	His	Cys	Thr	Ala				
			260					265					270						
Ala	Glu	Trp	Ile	Gln	Asp	Pro	Asp	Gly	Ser	Trp	Ala	Gln	Ile	Ala	Glu				
	275					280						285							
Lys	Arg	Ala	Val	Leu	Ala	His	Val	Asp	Val	Gln	Thr	Leu	Ser	Ser	Gln				
	290					295					300								
Leu	Ala	Val	Thr	Val	Gly	Pro	Gly	Glu	Arg	Arg	Ile	Gly	Pro	Gly	Glu				
305					310					315				320					
Pro	Leu	Glu	Leu	Leu	Cys	Asn	Val	Ser	Gly	Ala	Leu	Pro	Pro	Ala	Gly				
			325						330				335						
Arg	His	Ala	Ala	Tyr	Ser	Val	Gly	Trp	Glu	Met	Ala	Pro	Ala	Gly	Ala				
		340						345				350							
Pro	Gly	Pro	Gly	Arg	Leu	Val	Ala	Gln	Leu	Asp	Thr	Glu	Gly	Val	Gly				

355	360	365
Ser Leu Gly Pro Gly Tyr Glu Gly Arg His Ile Ala Met Glu Lys Val 370 375 380		
Ala Ser Arg Thr Tyr Arg Leu Arg Leu Glu Ala Ala Arg Pro Gly Asp 385 390 395 400		
Ala Gly Thr Tyr Arg Cys Leu Ala Lys Ala Tyr Val Arg Gly Ser Gly 405 410 415		
Thr Arg Leu Arg Glu Ala Ala Ser Ala Arg Ser Arg Pro Leu Pro Val 420 425 430		
His Val Arg Glu Glu Gly Val Val Leu Glu Ala Val Ala Trp Leu Ala 435 440 445		
Gly Gly Thr Val Tyr Arg Gly Glu Thr Ala Ser Leu Leu Cys Asn Ile 450 455 460		
Ser Val Arg Gly Gly Pro Pro Gly Leu Arg Leu Ala Ala Ser Trp Trp 465 470 475 480		
Val Glu Arg Pro Glu Asp Gly Glu Leu Ser Ser Val Pro Ala Gln Leu 485 490 495		
Val Gly Gly Val Gly Gln Asp Gly Val Ala Glu Leu Gly Val Arg Pro 500 505 510		
Gly Gly Gly Pro Val Ser Val Glu Leu Val Gly Pro Arg Ser His Arg 515 520 525		
Leu Arg Leu His Ser Leu Gly Pro Glu Asp Glu Gly Val Tyr His Cys 530 535 540		
Ala Pro Ser Ala Trp Val Gln His Ala Asp Tyr Ser Trp Tyr Gln Ala 545 550 555 560		
Gly Ser Ala Arg Ser Gly Pro Val Thr Val Tyr Pro Tyr Met His Ala 565 570 575		
Leu Asp Thr Leu Phe Val Pro Leu Leu Val Gly Thr Gly Val Ala Leu 580 585 590		
Val Thr Gly Ala Thr Val Leu Gly Thr Ile Thr Cys Cys Phe Met Lys 595 600 605		
Arg Leu Arg Lys Arg 610		

<210> 2173

<211> 122

<212> PRT

<213> Homo sapiens

<400> 2173

Met Trp Gly Trp Gly Ser Leu Val Ser Ala Arg Gly Gly Trp Gly Val
1 5 10 15

Phe Ile Tyr Leu Tyr Met Gly Leu Tyr Ile Val Leu Trp Gly Met Gly
 20 25 30
 Glu Pro Ala Gly Gly Glu Asn Pro Pro Leu Ser Pro His Pro Pro Gly
 35 40 45
 Arg Ala Asn Val Lys Leu Leu Ile Phe Val Leu Tyr Ile Phe Tyr Ile
 50 55 60
 Asn Ile Ser Ile Phe Phe Leu Gln Asn Gln Phe Ile Asn Gly Arg Gly
 65 70 75 80
 Val Trp Gly Gly His Met Glu Leu Pro Leu Trp Gly Gly Pro Leu His
 85 90 95
 Tyr Pro Thr Tyr Arg Pro Phe Pro His Pro Pro Pro His Ser Pro Pro
 100 105 110
 Pro Gly Cys Asp Cys Cys Lys Met Gly Val
 115 120

<210> 2174

<211> 613

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (507)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2174

Met Gly Ala Leu Arg Pro Thr Leu Leu Pro Pro Ser Leu Pro Leu Leu
 1 5 10 15
 Leu Leu Leu Met Leu Gly Met Gly Cys Trp Ala Arg Glu Val Leu Val
 20 25 30
 Pro Glu Gly Pro Leu Tyr Arg Val Ala Gly Thr Ala Val Ser Ile Ser
 35 40 45
 Cys Asn Val Thr Gly Tyr Glu Gly Pro Ala Gln Gln Asn Phe Glu Trp
 50 55 60
 Phe Leu Tyr Arg Pro Glu Ala Pro Asp Thr Ala Leu Gly Ile Val Ser
 65 70 75 80
 Thr Lys Asp Thr Gln Phe Ser Tyr Ala Val Phe Lys Ser Arg Val Val
 85 90 95
 Ala Gly Glu Val Gln Val Gln Arg Leu Gln Gly Asp Ala Val Val Leu
 100 105 110
 Lys Ile Ala Arg Leu Gln Ala Gln Asp Ala Gly Ile Tyr Glu Cys His
 115 120 125
 Thr Pro Ser Thr Asp Thr Arg Tyr Leu Gly Ser Tyr Ser Gly Lys Val

130	135	140
Glu Leu Arg Val Leu Pro Asp Val Leu Gln Val Ser Ala Ala Pro Pro		
145	150	155 160
Gly Pro Arg Gly Arg Gln Ala Pro Thr Ser Pro Pro Arg Met Thr Val		
	165	170 175
His Glu Gly Gln Glu Leu Ala Leu Gly Cys Leu Ala Arg Thr Ser Thr		
	180	185 190
Gln Lys His Thr His Leu Ala Val Ser Phe Gly Arg Ser Val Pro Glu		
	195	200 205
Ala Pro Val Gly Arg Ser Thr Leu Gln Glu Val Val Gly Ile Arg Ser		
	210	215 220
Asp Leu Ala Val Glu Ala Gly Ala Pro Tyr Ala Glu Arg Leu Ala Ala		
	225	230 235 240
Gly Glu Leu Arg Leu Gly Lys Glu Gly Thr Asp Arg Tyr Arg Met Val		
	245	250 255
Val Gly Gly Ala Gln Ala Gly Asp Ala Gly Thr Tyr His Cys Thr Ala		
	260	265 270
Ala Glu Trp Ile Gln Asp Pro Asp Gly Ser Trp Ala Gln Ile Ala Glu		
	275	280 285
Lys Arg Ala Val Leu Ala His Val Asp Val Gln Thr Leu Ser Ser Gln		
	290	295 300
Leu Ala Val Thr Val Gly Pro Gly Glu Arg Arg Ile Gly Pro Gly Glu		
	305	310 315 320
Pro Leu Glu Leu Leu Cys Asn Val Ser Gly Ala Leu Pro Pro Ala Gly		
	325	330 335
Arg His Ala Ala Tyr Ser Val Gly Trp Glu Met Ala Pro Ala Gly Ala		
	340	345 350
Pro Gly Pro Gly Arg Leu Val Ala Gln Leu Asp Thr Glu Gly Val Gly		
	355	360 365
Ser Leu Gly Pro Gly Tyr Glu Gly Arg His Ile Ala Met Glu Lys Val		
	370	375 380
Ala Ser Arg Thr Tyr Arg Leu Arg Leu Glu Ala Ala Arg Pro Gly Asp		
	385	390 395 400
Ala Gly Thr Tyr Arg Cys Leu Ala Lys Ala Tyr Val Arg Gly Ser Gly		
	405	410 415
Thr Arg Leu Arg Glu Ala Ala Ser Ala Arg Ser Arg Pro Leu Pro Val		
	420	425 430
His Val Arg Glu Glu Gly Val Val Leu Glu Ala Val Ala Trp Leu Ala		
	435	440 445
Gly Gly Thr Val Tyr Arg Gly Glu Thr Ala Ser Leu Leu Cys Asn Ile		

450 455 460
 Ser Val Arg Gly Gly Pro Pro Gly Leu Arg Leu Ala Ala Ser Trp Trp
 465 470 475 480
 Val Glu Arg Pro Glu Asp Gly Glu Leu Ser Ser Val Pro Ala Gln Leu
 485 490 495
 Val Gly Gly Val Gly Gln Asp Gly Val Ala Xaa Leu Gly Val Arg Pro
 500 505 510
 Gly Gly Gly Pro Val Ser Val Glu Leu Val Gly Pro Arg Ser His Arg
 515 520 525
 Leu Arg Leu His Ser Leu Gly Pro Glu Asp Glu Gly Val Tyr His Cys
 530 535 540
 Ala Pro Ser Ala Trp Val Gln His Ala Asp Tyr Ser Trp Tyr Gln Ala
 545 550 555 560
 Gly Ser Ala Arg Ser Gly Pro Val Thr Val Tyr Pro Tyr Met His Ala
 565 570 575
 Leu Asp Thr Leu Phe Val Pro Leu Leu Val Gly Thr Gly Val Ala Leu
 580 585 590
 Val Thr Gly Ala Thr Val Leu Gly Thr Ile Thr Cys Cys Phe Met Lys
 595 600 605
 Arg Leu Arg Lys Arg
 610

<210> 2175
 <211> 60
 <212> PRT
 <213> Homo sapiens

<400> 2175
 Met Ala Trp Ala Val Thr Leu Ile Leu Ser Leu Ser Arg Ala Val Arg
 1 5 10 15
 Thr Gln Glu Val Pro Met Ala Leu Gln Ala His Ser Gly Ile Gln Leu
 20 25 30
 Ala Ser Arg Val Gly Leu Pro Gly Pro Trp Pro Glu Cys Ser Thr Leu
 35 40 45
 Ser Ser Arg Cys His Leu Ser Met Asp Ser Lys Val
 50 55 60

<210> 2176
 <211> 396
 <212> PRT
 <213> Homo sapiens

<400> 2176

Met Trp Trp Leu Leu Leu Trp Gly Val Leu Gln Ala Cys Pro Thr Arg
 1 5 10 15
 Gly Ser Val Leu Leu Ala Gln Glu Leu Pro Gln Gln Leu Thr Ser Pro
 20 25 30
 Gly Tyr Pro Glu Pro Tyr Gly Lys Gly Gln Glu Ser Ser Thr Asp Ile
 35 40 45
 Lys Ala Pro Glu Gly Phe Ala Val Arg Leu Val Phe Gln Asp Phe Asp
 50 55 60
 Leu Glu Pro Ser Gln Asp Cys Ala Gly Asp Ser Val Thr Ile Ser Phe
 65 70 75 80
 Val Gly Ser Asp Pro Ser Gln Phe Cys Gly Gln Gln Gly Ser Pro Leu
 85 90 95
 Gly Arg Pro Pro Gly Gln Arg Glu Phe Val Ser Ser Gly Arg Ser Leu
 100 105 110
 Arg Leu Thr Phe Arg Thr Gln Pro Ser Ser Glu Asn Lys Thr Ala His
 115 120 125
 Leu His Lys Gly Phe Leu Ala Leu Tyr Gln Thr Val Ala Val Asn Tyr
 130 135 140
 Ser Gln Pro Ile Ser Glu Ala Ser Arg Gly Ser Glu Ala Ile Asn Ala
 145 150 155 160
 Pro Gly Asp Asn Pro Ala Lys Val Gln Asn His Cys Gln Glu Pro Tyr
 165 170 175
 Tyr Gln Ala Ala Ala Ala Gly Ala Leu Thr Cys Ala Thr Pro Gly Thr
 180 185 190
 Trp Lys Asp Arg Gln Asp Gly Glu Glu Val Leu Gln Cys Met Pro Val
 195 200 205
 Cys Gly Arg Pro Val Thr Pro Ile Ala Gln Asn Gln Thr Thr Leu Gly
 210 215 220
 Ser Ser Arg Ala Lys Leu Gly Asn Phe Pro Trp Gln Ala Phe Thr Ser
 225 230 235 240
 Ile His Gly Arg Gly Gly Gly Ala Leu Leu Gly Asp Arg Trp Ile Leu
 245 250 255
 Thr Ala Ala His Thr Ile Tyr Pro Lys Asp Ser Val Ser Leu Arg Lys
 260 265 270
 Asn Gln Ser Val Asn Val Phe Leu Gly His Thr Ala Ile Asp Glu Met
 275 280 285
 Leu Lys Leu Gly Asn His Pro Val His Arg Val Val Val His Pro Asp
 290 295 300
 Tyr Arg Gln Asn Glu Ser His Asn Phe Ser Gly Asp Ile Ala Leu Leu
 305 310 315 320

Glu Leu Gln His Ser Ile Pro Leu Gly Pro Asn Val Leu Pro Val Cys
 325 330 335
 Leu Pro Asp Asn Glu Thr Leu Tyr Arg Ser Gly Leu Leu Gly Tyr Val
 340 345 350
 Ser Gly Phe Gly Met Glu Met Gly Trp Leu Thr Thr Glu Leu Lys Tyr
 355 360 365
 Ser Arg Leu Pro Val Ala Pro Arg Glu Ala Cys Asn Ala Trp Leu Gln
 370 375 380
 Lys Arg Gln Arg Pro Glu Lys Lys Lys Lys Lys Lys
 385 390 395

<210> 2177
 <211> 172
 <212> PRT
 <213> Homo sapiens

<400> 2177
 Gly Thr Arg Thr Glu Arg Asp Glu Leu Leu Lys Asp Leu Gln Gln Ser
 1 5 10 15
 Ile Ala Arg Glu Pro Ser Ala Pro Ser Ile Pro Thr Pro Ala Tyr Gln
 20 25 30
 Ser Leu Pro Ala Gly Gly His Ala Pro Thr Pro Pro Thr Pro Ala Pro
 35 40 45
 Arg Thr Met Pro Pro Thr Lys Pro Gln Pro Pro Ala Arg Pro Pro Pro
 50 55 60
 Pro Val Leu Pro Ala Asn Arg Ala Pro Ser Ala Thr Ala Pro Ser Pro
 65 70 75 80
 Val Gly Ala Gly Thr Ala Ala Pro Ala Pro Ser Gln Thr Pro Gly Ser
 85 90 95
 Ala Pro Pro Pro Gln Ala Gln Gly Pro Pro Tyr Pro Thr Tyr Pro Gly
 100 105 110
 Tyr Pro Gly Tyr Cys Gln Met Pro Met Pro Met Gly Tyr Asn Pro Tyr
 115 120 125
 Ala Tyr Gly Gln Tyr Asn Met Pro Tyr Pro Pro Val Tyr His Gln Ser
 130 135 140
 Pro Gly Gln Ala Pro Tyr Pro Gly Pro Gln Gln Pro Ser Tyr Pro Phe
 145 150 155 160
 Pro Gln Pro Pro Gln Gln Ser Tyr Tyr Pro Gln Gln
 165 170

<210> 2178
 <211> 142

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (111)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2178

Met His Gln Leu Leu Gln Leu Gln Arg Gln Glu Pro Cys Arg Leu Leu
 1 5 10 15

Ser Pro Ser Pro Gln Pro Gly Leu His His Leu Cys Phe Gln Gln Ile
 20 25 30

Glu Leu Leu Leu Leu Leu Leu His Leu Gln Trp Gly Leu Gly Leu Leu
 35 40 45

Arg Gln Leu His His Lys Arg Leu Ala Gln Leu Leu Leu His Arg Arg
 50 55 60

Arg Asp His Pro Ile Pro Pro Ile Gln Asp Ile Leu Gly Ile Ala Lys
 65 70 75 80

Cys Pro Cys Pro Trp Ala Ile Ile Leu Met Arg Met Ala Ser Ile Ile
 85 90 95

Cys His Ile His Gln Cys Ile Thr Arg Val Leu Asp Arg Leu Xaa Thr
 100 105 110

Arg Asp Pro Ser Ser Leu His Thr Pro Ser Leu Ser Pro His Ser Ser
 115 120 125

Leu Thr Ile His Ser Ser Asn Met Ser Ala Gln Gln Leu Ser
 130 135 140

<210> 2179

<211> 868

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (194)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (309)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (550)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2179

Met Ala Thr Phe Ile Ser Val Gln Leu Lys Lys Thr Ser Glu Val Asp

1	5	10	15
Leu Ala Lys	Pro Leu Val	Lys Phe Ile Gln Gln Thr Tyr	Pro Ser Gly
	20	25	30
Gly Glu Glu	Gln Ala Gln Tyr Cys Arg	Ala Ala Glu Glu Leu Ser Lys	
	35	40	45
Leu Arg Arg	Ala Ala Val Gly Arg	Pro Leu Asp Lys His Glu Gly Ala	
	50	55	60
Leu Glu Thr	Leu Leu Arg Tyr Tyr Asp	Gln Ile Cys Ser Ile Glu Pro	
	65	70	75
Lys Phe Pro	Phe Ser Glu Asn Gln Ile Cys	Leu Thr Phe Thr Trp Lys	
	85	90	95
Asp Ala Phe	Asp Lys Gly Ser Leu Phe Gly	Gly Ser Val Lys Leu Ala	
	100	105	110
Leu Ala Ser	Leu Gly Tyr Glu Lys Ser Cys	Val Leu Phe Asn Cys Ala	
	115	120	125
Ala Leu Ala	Ser Gln Ile Ala Ala Glu Gln	Asn Leu Asp Asn Asp Glu	
	130	135	140
Gly Leu Lys	Ile Ala Ala Lys His Tyr Gln	Phe Ala Ser Gly Ala Phe	
	145	150	155
Leu His Ile	Lys Glu Thr Val Leu Ser Ala	Leu Ser Arg Glu Pro Thr	
	165	170	175
Val Asp Ile	Ser Pro Asp Thr Val Gly Thr	Leu Ser Leu Ile Met Leu	
	180	185	190
Ala Xaa Ala	Gln Glu Val Phe Phe Leu Lys	Ala Thr Arg Asp Lys Met	
	195	200	205
Lys Asp Ala	Ile Ile Ala Lys Leu Ala Asn	Gln Ala Ala Asp Tyr Phe	
	210	215	220
Gly Asp Ala	Phe Lys Gln Cys Gln Tyr Lys	Asp Thr Leu Pro Lys Glu	
	225	230	235
Val Phe Pro	Val Leu Ala Ala Lys His Cys	Ile Met Gln Ala Asn Ala	
	245	250	255
Glu Tyr His	Gln Ser Ile Leu Ala Lys Gln	Gln Lys Lys Phe Gly Glu	
	260	265	270
Glu Ile Ala	Arg Leu Gln His Ala Ala Glu	Leu Ile Lys Thr Val Ala	
	275	280	285
Ser Arg Tyr	Asp Glu Tyr Val Asn Val Lys	Asp Phe Ser Asp Lys Ile	
	290	295	300
Asn Arg Ala	Leu Xaa Ala Ala Lys Lys Asp	Asn Asp Phe Ile Tyr His	
	305	310	315
Asp Arg Val	Pro Asp Leu Lys Asp Leu Asp	Pro Ile Gly Lys Ala Thr	

325										330					335						
Leu	Val	Lys	Ser	Thr	Pro	Val	Asn	Val	Pro	Ile	Ser	Gln	Lys	Phe	Thr						
			340					345					350								
Asp	Leu	Phe	Glu	Lys	Met	Val	Pro	Val	Ser	Val	Gln	Gln	Ser	Leu	Ala						
		355					360					365									
Ala	Tyr	Asn	Gln	Arg	Lys	Ala	Asp	Leu	Val	Asn	Arg	Ser	Ile	Ala	Gln						
		370				375					380										
Met	Arg	Glu	Ala	Thr	Thr	Leu	Ala	Asn	Gly	Val	Leu	Ala	Ser	Leu	Asn						
385					390					395					400						
Leu	Pro	Ala	Ala	Ile	Glu	Asp	Val	Ser	Gly	Asp	Thr	Val	Pro	Gln	Ser						
				405					410					415							
Ile	Leu	Thr	Lys	Ser	Arg	Ser	Val	Ile	Glu	Gln	Gly	Gly	Ile	Gln	Thr						
			420					425					430								
Val	Asp	Gln	Leu	Ile	Lys	Glu	Leu	Pro	Glu	Leu	Leu	Gln	Arg	Asn	Arg						
		435					440					445									
Glu	Ile	Leu	Asp	Glu	Ser	Leu	Arg	Leu	Leu	Asp	Glu	Glu	Glu	Ala	Thr						
		450				455					460										
Asp	Asn	Asp	Leu	Arg	Ala	Lys	Phe	Lys	Glu	Arg	Trp	Gln	Arg	Thr	Pro						
465					470					475					480						
Ser	Asn	Glu	Leu	Tyr	Lys	Pro	Leu	Arg	Ala	Glu	Gly	Thr	Asn	Phe	Arg						
				485					490					495							
Thr	Val	Leu	Asp	Lys	Ala	Val	Gln	Ala	Asp	Gly	Gln	Val	Lys	Glu	Cys						
			500					505					510								
Tyr	Gln	Ser	His	Arg	Asp	Thr	Ile	Val	Leu	Leu	Cys	Lys	Pro	Glu	Pro						
		515				520						525									
Glu	Leu	Asn	Ala	Ala	Ile	Pro	Ser	Ala	Asn	Pro	Ala	Lys	Thr	Met	Gln						
		530				535					540										
Gly	Ser	Glu	Val	Val	Xaa	Val	Leu	Lys	Ser	Leu	Leu	Ser	Asn	Leu	Asp						
545					550					555					560						
Glu	Val	Lys	Lys	Glu	Arg	Glu	Gly	Leu	Glu	Asn	Asp	Leu	Lys	Ser	Val						
				565					570					575							
Asn	Phe	Asp	Met	Thr	Ser	Lys	Phe	Leu	Thr	Ala	Leu	Ala	Gln	Asp	Gly						
			580					585					590								
Val	Ile	Asn	Glu	Glu	Ala	Leu	Ser	Val	Thr	Glu	Leu	Asp	Arg	Val	Tyr						

645					650					655					
Ala	Thr	Ala	Tyr	Asp	Asn	Phe	Val	Glu	Leu	Val	Ala	Asn	Leu	Lys	Glu
		660						665					670		
Gly	Thr	Lys	Phe	Tyr	Asn	Glu	Leu	Thr	Glu	Ile	Leu	Val	Arg	Phe	Gln
		675					680						685		
Asn	Lys	Cys	Ser	Asp	Ile	Val	Phe	Ala	Arg	Lys	Thr	Glu	Arg	Asp	Glu
		690					695					700			
Leu	Leu	Lys	Asp	Leu	Gln	Gln	Ser	Ile	Ala	Arg	Glu	Pro	Ser	Ala	Pro
705						710					715				720
Ser	Ile	Pro	Thr	Pro	Ala	Tyr	Gln	Ser	Leu	Pro	Ala	Gly	Gly	His	Ala
				725					730					735	
Pro	Thr	Pro	Pro	Thr	Pro	Ala	Pro	Arg	Thr	Met	Pro	Pro	Thr	Lys	Pro
			740					745					750		
Gln	Pro	Pro	Ala	Arg	Pro	Pro	Pro	Pro	Val	Leu	Pro	Ala	Asn	Arg	Ala
		755					760					765			
Pro	Ser	Ala	Thr	Ala	Pro	Ser	Pro	Val	Gly	Ala	Gly	Thr	Ala	Ala	Pro
		770					775					780			
Ala	Pro	Ser	Gln	Thr	Pro	Gly	Ser	Ala	Pro	Pro	Pro	Gln	Ala	Gln	Gly
785						790					795				800
Pro	Pro	Tyr	Pro	Thr	Tyr	Pro	Gly	Tyr	Pro	Gly	Tyr	Cys	Gln	Met	Pro
			805						810					815	
Met	Pro	Met	Gly	Tyr	Asn	Pro	Tyr	Ala	Tyr	Gly	Gln	Tyr	Asn	Met	Pro
			820					825					830		
Tyr	Pro	Pro	Val	Tyr	His	Gln	Ser	Pro	Gly	Gln	Ala	Pro	Tyr	Pro	Gly
		835					840					845			
Pro	Gln	Gln	Pro	Ser	Tyr	Pro	Phe	Pro	Gln	Pro	Pro	Gln	Gln	Ser	Tyr
	850					855					860				
Tyr	Pro	Gln	Gln												
865															

<210> 2180

<211> 102

<212> PRT

<213> Homo sapiens

<400> 2180

Met	Lys	Pro	Ala	Thr	Ala	Ser	Ala	Leu	Leu	Leu	Leu	Leu	Leu	Gly	Leu
1				5					10					15	

Ala	Trp	Thr	Gln	Gly	Ser	His	Gly	Trp	Gly	Ala	Asp	Ala	Ser	Ser	Leu
			20					25					30		

Gln	Lys	Arg	Ala	Gly	Arg	Ala	Asp	Gln	Pro	Gly	Ala	Gly	Trp	Gln	Glu
		35					40						45		

Val Ala Ala Val Thr Ser Lys Asn Tyr Asn Tyr Asn Gln His Ala Tyr
 50 55 60

Pro Thr Ala Tyr Gly Gly Lys Tyr Ser Val Lys Thr Pro Ala Lys Gly
 65 70 75 80

Gly Val Ser Pro Ser Ser Ser Ala Ser Arg Val Gln Pro Gly Leu Leu
 85 90 95

Gln Trp Val Lys Phe Trp
 100

<210> 2181

<211> 140

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2181

Met Phe Leu Phe Gly Gly Phe Leu Met Thr Leu Phe Gly Leu Phe Val
 1 5 10 15

Ser Leu Val Phe Leu Gly Gln Ala Phe Thr Ile Met Leu Val Tyr Val
 20 25 30

Trp Ser Arg Xaa Asn Pro Tyr Val Arg Met Asn Phe Phe Gly Leu Leu
 35 40 45

Asn Phe Gln Ala Pro Phe Leu Pro Trp Val Leu Met Gly Phe Ser Leu
 50 55 60

Leu Leu Gly Asn Ser Ile Ile Val Asp Leu Leu Gly Ile Ala Val Gly
 65 70 75 80

His Ile Tyr Phe Phe Leu Glu Asp Val Phe Pro Asn Gln Pro Gly Gly
 85 90 95

Ile Arg Ile Leu Lys Thr Pro Ser Ile Leu Lys Ala Ile Phe Asp Thr
 100 105 110

Pro Asp Glu Asp Pro Asn Tyr Asn Pro Leu Pro Glu Glu Arg Pro Gly
 115 120 125

Gly Phe Ala Trp Gly Glu Gly Gln Arg Leu Gly Gly
 130 135 140

<210> 2182

<211> 156

<212> PRT

<213> Homo sapiens

<400> 2182

Met Leu Glu Glu Gly Ser Phe Arg Gly Arg Thr Ala Asp Phe Val Phe
 1 5 10 15

Met Phe Leu Phe Gly Gly Phe Leu Met Thr Leu Phe Gly Leu Phe Val
 20 25 30

Ser Leu Val Phe Leu Gly Gln Ala Phe Thr Ile Met Leu Val Tyr Val
 35 40 45

Trp Ser Arg Arg Asn Pro Tyr Val Arg Met Asn Phe Phe Gly Leu Leu
 50 55 60

Asn Phe Gln Ala Pro Phe Leu Pro Trp Val Leu Met Gly Phe Ser Leu
 65 70 75 80

Leu Leu Gly Asn Ser Ile Ile Val Asp Leu Leu Gly Ile Ala Val Gly
 85 90 95

His Ile Tyr Phe Phe Leu Glu Asp Val Phe Pro Asn Gln Pro Gly Gly
 100 105 110

Ile Arg Ile Leu Lys Thr Pro Ser Ile Leu Lys Ala Ile Phe Asp Thr
 115 120 125

Pro Asp Glu Asp Pro Asn Tyr Asn Pro Leu Pro Glu Glu Arg Pro Gly
 130 135 140

Gly Phe Ala Trp Gly Glu Gly Gln Arg Leu Gly Gly
 145 150 155

<210> 2183

<211> 239

<212> PRT

<213> Homo sapiens

<400> 2183

Met Ala Tyr Gln Ser Leu Arg Leu Glu Tyr Leu Gln Ile Pro Pro Val
 1 5 10 15

Ser Arg Ala Tyr Thr Thr Ala Cys Val Leu Thr Thr Ala Ala Val Gln
 20 25 30

Leu Glu Leu Ile Thr Pro Phe Gln Leu Tyr Phe Asn Pro Glu Leu Ile
 35 40 45

Phe Lys His Phe Gln Ile Trp Arg Leu Ile Thr Asn Phe Leu Phe Phe
 50 55 60

Gly Pro Val Gly Phe Asn Phe Leu Phe Asn Met Ile Phe Leu Tyr Arg
 65 70 75 80

Tyr Cys Arg Met Leu Glu Glu Gly Ser Phe Arg Gly Arg Thr Ala Asp
 85 90 95

Phe Val Phe Met Phe Leu Phe Gly Gly Phe Leu Met Thr Leu Phe Gly
 100 105 110

Leu Phe Val Ser Leu Val Phe Leu Gly Gln Ala Phe Thr Ile Met Leu
 115 120 125
 Val Tyr Val Trp Ser Arg Arg Asn Pro Tyr Val Arg Met Asn Phe Phe
 130 135 140
 Gly Leu Leu Asn Phe Gln Ala Pro Phe Leu Pro Trp Val Leu Met Gly
 145 150 155 160
 Phe Ser Leu Leu Leu Gly Asn Ser Ile Ile Val Asp Leu Leu Gly Ile
 165 170 175
 Ala Val Gly His Ile Tyr Phe Phe Leu Glu Asp Val Phe Pro Asn Gln
 180 185 190
 Pro Gly Gly Ile Arg Ile Leu Lys Thr Pro Ser Ile Leu Lys Ala Ile
 195 200 205
 Phe Asp Thr Pro Asp Glu Asp Pro Asn Tyr Asn Pro Leu Pro Glu Glu
 210 215 220
 Arg Pro Gly Gly Phe Ala Trp Gly Glu Gly Gln Arg Leu Gly Gly
 225 230 235

<210> 2184

<211> 132

<212> PRT

<213> Homo sapiens

<400> 2184

Met Thr Leu Phe Gly Leu Phe Val Ser Leu Val Phe Leu Gly Gln Ala
 1 5 10 15
 Phe Thr Ile Met Leu Val Tyr Val Trp Ser Arg Arg Asn Pro Tyr Val
 20 25 30
 Arg Met Asn Phe Phe Gly Leu Leu Asn Phe Gln Ala Pro Phe Leu Pro
 35 40 45
 Trp Val Leu Met Gly Phe Ser Leu Leu Leu Gly Asn Ser Ile Ile Val
 50 55 60
 Asp Leu Leu Gly Ile Ala Val Gly His Ile Tyr Phe Phe Leu Glu Asp
 65 70 75 80
 Val Phe Pro Asn Gln Pro Gly Gly Ile Arg Ile Leu Lys Thr Pro Ser
 85 90 95
 Ile Leu Lys Ala Ile Phe Asp Thr Pro Asp Glu Asp Pro Asn Tyr Asn
 100 105 110
 Pro Leu Pro Glu Glu Arg Pro Gly Gly Phe Ala Trp Gly Glu Gly Gln
 115 120 125
 Arg Leu Gly Gly
 130

<210> 2185

<211> 339

<212> PRT

<213> Homo sapiens

<400> 2185

Met Ser Trp Ser Thr Phe Leu Leu Ala Glu Ala Cys Gly Phe Thr Gly
 1 5 10 15

Val Val Ala Val Leu Phe Cys Gly Ile Thr Gln Ala His Tyr Thr Tyr
 20 25 30

Asn Asn Leu Ser Val Glu Ser Arg Ser Arg Thr Lys Gln Leu Phe Glu
 35 40 45

Val Leu His Phe Leu Ala Glu Asn Phe Ile Phe Ser Tyr Met Gly Leu
 50 55 60

Ala Leu Phe Thr Phe Gln Lys His Val Phe Ser Pro Ile Phe Ile Ile
 65 70 75 80

Gly Ala Phe Val Ala Ile Phe Leu Gly Arg Ala Ala His Ile Tyr Pro
 85 90 95

Leu Ser Phe Phe Leu Asn Leu Gly Arg Arg His Lys Ile Gly Trp Asn
 100 105 110

Phe Gln His Met Met Met Phe Ser Gly Leu Arg Gly Ala Met Ala Phe
 115 120 125

Ala Leu Ala Ile Arg Asp Thr Ala Ser Tyr Ala Arg Gln Met Met Phe
 130 135 140

Thr Thr Thr Leu Leu Ile Val Phe Phe Thr Val Trp Ile Ile Gly Gly
 145 150 155 160

Gly Thr Thr Pro Met Leu Ser Trp Leu Asn Ile Arg Val Gly Val Asp
 165 170 175

Pro Asp Gln Asp Pro Pro Pro Asn Asn Asp Ser Phe Gln Val Leu Gln
 180 185 190

Gly Asp Gly Pro Asp Ser Ala Arg Gly Asn Arg Thr Lys Gln Glu Ser
 195 200 205

Ala Trp Ile Phe Arg Leu Trp Tyr Ser Phe Asp His Asn Tyr Leu Lys
 210 215 220

Pro Ile Leu Thr His Ser Gly Pro Pro Leu Thr Thr Thr Leu Pro Ala
 225 230 235 240

Trp Cys Gly Leu Leu Ala Arg Cys Leu Thr Ser Pro Gln Val Tyr Asp
 245 250 255

Asn Gln Glu Pro Leu Arg Glu Glu Asp Ser Asp Phe Ile Leu Thr Glu
 260 265 270

Gly Asp Leu Thr Leu Thr Tyr Gly Asp Ser Thr Val Thr Ala Asn Gly
 275 280 285

Ser Ser Ser Ser His Thr Ala Ser Thr Ser Leu Glu Gly Ser Arg Arg
 290 295 300
 Thr Lys Ser Ser Ser Glu Glu Val Leu Glu Arg Asp Leu Gly Met Gly
 305 310 315 320
 Asp Gln Lys Val Ser Ser Arg Gly Thr Arg Leu Val Phe Pro Leu Glu
 325 330 335
 Asp Asn Ala

<210> 2186
 <211> 339
 <212> PRT
 <213> Homo sapiens

<400> 2186
 Met Ser Trp Ser Thr Phe Leu Leu Ala Glu Ala Cys Gly Phe Thr Gly
 1 5 10 15
 Val Val Ala Val Leu Phe Cys Gly Ile Thr Gln Ala His Tyr Thr Tyr
 20 25 30
 Asn Asn Leu Ser Val Glu Ser Arg Ser Arg Thr Lys Gln Leu Phe Glu
 35 40 45
 Val Leu His Phe Leu Ala Glu Asn Phe Ile Phe Ser Tyr Met Gly Leu
 50 55 60
 Ala Leu Phe Thr Phe Gln Lys His Val Phe Ser Pro Ile Phe Ile Ile
 65 70 75 80
 Gly Ala Phe Val Ala Ile Phe Leu Gly Arg Ala Ala His Ile Tyr Pro
 85 90 95
 Leu Ser Phe Phe Leu Asn Leu Gly Arg Arg His Lys Ile Gly Trp Asn
 100 105 110
 Phe Gln His Met Met Met Phe Ser Gly Leu Arg Gly Ala Met Ala Phe
 115 120 125
 Ala Leu Ala Ile Arg Asp Thr Ala Ser Tyr Ala Arg Gln Met Met Phe
 130 135 140
 Thr Thr Thr Leu Leu Ile Val Phe Phe Thr Val Trp Ile Ile Gly Gly
 145 150 155 160
 Gly Thr Thr Pro Met Leu Ser Trp Leu Asn Ile Arg Val Gly Val Asp
 165 170 175
 Pro Asp Gln Asp Pro Pro Pro Asn Asn Asp Ser Phe Gln Val Leu Gln
 180 185 190
 Gly Asp Gly Pro Asp Ser Ala Arg Gly Asn Arg Thr Lys Gln Glu Ser
 195 200 205

Ala Trp Ile Phe Arg Leu Trp Tyr Ser Phe Asp His Asn Tyr Leu Lys
 210 215 220

Pro Ile Leu Thr His Ser Gly Pro Pro Leu Thr Thr Thr Leu Pro Ala
 225 230 235 240

Trp Cys Gly Leu Leu Ala Arg Cys Leu Thr Ser Pro Gln Val Tyr Asp
 245 250 255

Asn Gln Glu Pro Leu Arg Glu Glu Asp Ser Asp Phe Ile Leu Thr Glu
 260 265 270

Gly Asp Leu Thr Leu Thr Tyr Gly Asp Ser Thr Val Thr Ala Asn Gly
 275 280 285

Ser Ser Ser Ser His Thr Ala Ser Thr Ser Leu Glu Gly Ser Arg Arg
 290 295 300

Thr Lys Ser Ser Ser Glu Glu Val Leu Glu Arg Asp Leu Gly Met Gly
 305 310 315 320

Asp Gln Lys Val Ser Ser Arg Gly Thr Arg Leu Val Phe Pro Leu Glu
 325 330 335

Asp Asn Ala

<210> 2187

<211> 509

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (168)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (198)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (199)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (244)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE
 <222> (246)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (294)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (301)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (303)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (493)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (498)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (499)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (505)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 2187
 Met Glu Glu Leu Ala Thr Glu Lys Glu Ala Glu Glu Ser His Arg Gln
 1 5 10 15

Asp Ser Val Xaa Leu Leu Thr Phe Ile Leu Leu Leu Thr Leu Thr Ile
 20 25 30

Leu Thr Ile Trp Leu Phe Lys His Arg Arg Val Arg Phe Leu His Glu
 35 40 45

Thr Gly Leu Ala Met Ile Tyr Gly Leu Ile Val Gly Val Ile Leu Arg
 50 55 60

Tyr Gly Thr Pro Ala Thr Ser Gly Arg Asp Lys Ser Leu Ser Cys Thr
 65 70 75 80

Gln Glu Asp Arg Ala Phe Ser Thr Leu Leu Val Asn Val Ser Gly Lys
 85 90 95

Phe Phe Glu Tyr Thr Leu Lys Gly Glu Ile Ser Pro Gly Lys Ile Asn
 100 105 110

Ser Val Glu Gln Asn Asp Met Leu Arg Lys Val Thr Phe Asp Pro Glu
 115 120 125
 Val Phe Phe Asn Ile Leu Leu Pro Pro Ile Ile Phe His Ala Gly Tyr
 130 135 140
 Ser Leu Lys Lys Arg His Phe Phe Arg Asn Leu Gly Ser Ile Leu Ala
 145 150 155 160
 Tyr Ala Phe Leu Gly Thr Ala Xaa Ser Cys Phe Ile Ile Gly Asn Leu
 165 170 175
 Met Tyr Gly Val Val Lys Leu Met Lys Ile Met Gly Gln Leu Ser Asp
 180 185 190
 Lys Phe Tyr Tyr Thr Xaa Xaa Leu Phe Phe Gly Ala Ile Ile Ser Ala
 195 200 205
 Thr Asp Pro Val Thr Val Leu Ala Ile Phe Asn Glu Leu His Ala Asp
 210 215 220
 Val Asp Leu Tyr Ala Leu Leu Phe Gly Glu Ser Val Leu Asn Asp Ala
 225 230 235 240
 Val Ala Ile Xaa Leu Xaa Ser Ser Ile Val Ala Tyr Gln Pro Ala Gly
 245 250 255
 Leu Asn Thr His Ala Phe Asp Ala Ala Ala Phe Phe Lys Ser Val Gly
 260 265 270
 Ile Phe Leu Gly Ile Phe Ser Gly Ser Phe Thr Met Gly Ala Val Thr
 275 280 285
 Gly Val Val Thr Ala Xaa Val Thr Lys Phe Thr Lys Xaa His Xaa Phe
 290 295 300
 Pro Leu Leu Glu Thr Ala Leu Phe Phe Leu Met Ser Trp Ser Thr Phe
 305 310 315 320
 Leu Leu Ala Glu Ala Cys Gly Phe Thr Gly Val Val Ala Val Leu Phe
 325 330 335
 Cys Gly Ile Thr Gln Ala His Tyr Thr Tyr Asn Asn Leu Ser Val Glu
 340 345 350
 Ser Arg Ser Arg Thr Lys Gln Leu Phe Glu Val Leu His Phe Leu Ala
 355 360 365
 Glu Asn Phe Ile Phe Ser Tyr Met Gly Leu Ala Leu Phe Thr Phe Gln
 370 375 380
 Lys His Val Phe Ser Pro Ile Phe Ile Ile Gly Ala Phe Val Ala Ile
 385 390 395 400
 Phe Leu Gly Arg Ala Ala His Ile Tyr Pro Leu Ser Phe Phe Leu Asn
 405 410 415
 Leu Gly Arg Arg His Lys Ile Gly Trp Asn Phe Gln His Met Met Met
 420 425 430

Phe Ser Gly Leu Arg Gly Ala Met Ala Phe Ala Leu Ala Ile Arg Asp
 435 440 445
 Thr Ala Ser Tyr Ala Arg Gln Met Met Phe Thr Thr Thr Leu Leu Ile
 450 455 460
 Val Phe Phe Thr Val Trp Ile Ile Gly Gly Gly Thr Thr Pro Met Leu
 465 470 475 480
 Ser Trp Leu Asn Ile Arg Val Gly Val Asp Pro Asp Xaa Asp Pro Pro
 485 490 495
 Pro Xaa Xaa Asp Ser Phe Ala Phe Xaa Thr Glu Thr Ala
 500 505

<210> 2188

<211> 146

<212> PRT

<213> Homo sapiens

<400> 2188

Met Thr Met Arg Ser Leu Leu Arg Thr Pro Phe Leu Cys Gly Leu Leu
 1 5 10 15
 Trp Ala Phe Cys Ala Pro Gly Ala Arg Ala Glu Glu Pro Ala Ala Ser
 20 25 30
 Phe Ser Gln Pro Gly Ser Met Gly Leu Asp Lys Asn Thr Val His Asp
 35 40 45
 Gln Glu His Ile Met Glu His Leu Glu Gly Val Ile Asn Lys Pro Glu
 50 55 60
 Ala Glu Met Ser Pro Gln Glu Leu Gln Leu His Tyr Phe Lys Met His
 65 70 75 80
 Asp Tyr Asp Gly Asn Asn Leu Leu Asp Gly Leu Glu Leu Ser Thr Ala
 85 90 95
 Ile Thr His Val His Lys Glu Glu Gly Ser Glu Gln Ala Pro Leu Met
 100 105 110
 Ser Glu Asp Glu Leu Ile Asn Ile Ile Asp Gly Val Leu Arg Asp Asp
 115 120 125
 Asp Lys Asn Asn Asp Gly Tyr Ile Asp Tyr Ala Glu Phe Ala Lys Ser
 130 135 140
 Leu Gln
 145

<210> 2189

<211> 530

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (488)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (490)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (494)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (495)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (505)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2189

Met	Glu	Phe	Gly	Leu	Thr	Trp	Val	Phe	Leu	Val	Ala	Leu	Leu	Arg	Gly
1				5					10					15	

Val	His	Cys	Gln	Val	Gln	Leu	Val	Glu	Ser	Gly	Gly	Ala	Val	Val	Gln
			20					25					30		

Pro	Gly	Gly	Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Phe	Thr	Phe
		35					40					45			

Ser	Arg	Tyr	Gly	Met	His	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu
	50					55					60				

Gln	Trp	Leu	Ala	Leu	Val	Leu	His	Asp	Gly	Gly	Gln	Lys	Tyr	Asn	Glu
65					70					75					80

Asp	Val	Val	Lys	Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ser	Asn	Asn
				85					90					95	

Lys	Val	Tyr	Leu	Gln	Met	Asp	Ser	Leu	Arg	Gly	Glu	Asp	Thr	Ala	Thr
		100						105					110		

Tyr	Tyr	Cys	Val	Arg	Gly	Met	Trp	Glu	Gln	Leu	Pro	Ser	Tyr	Tyr	Phe
		115					120					125			

Asp	Tyr	Trp	Gly	Gln	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser	Ala	Ser	Pro
	130					135					140				

Thr	Ser	Pro	Lys	Val	Phe	Pro	Leu	Ser	Leu	Cys	Ser	Thr	Gln	Pro	Asp
145				150						155				160	

Gly	Asn	Val	Val	Ile	Ala	Cys	Leu	Val	Gln	Gly	Phe	Phe	Pro	Gln	Glu
				165					170					175	

Pro Leu Ser Val Thr Trp Ser Glu Ser Gly Gln Gly Val Thr Ala Arg
 180 185 190
 Asn Phe Pro Pro Ser Gln Asp Ala Ser Gly Asp Leu Tyr Thr Thr Ser
 195 200 205
 Ser Gln Leu Thr Leu Pro Ala Thr Gln Cys Leu Ala Gly Lys Ser Val
 210 215 220
 Thr Cys His Val Lys His Tyr Thr Asn Pro Ser Gln Asp Val Thr Val
 225 230 235 240
 Pro Cys Pro Val Pro Ser Thr Pro Pro Thr Pro Ser Pro Ser Thr Pro
 245 250 255
 Pro Thr Pro Ser Pro Ser Cys Cys His Pro Arg Leu Ser Leu His Arg
 260 265 270
 Pro Ala Leu Glu Asp Leu Leu Leu Gly Ser Glu Ala Asn Leu Thr Cys
 275 280 285
 Thr Leu Thr Gly Leu Arg Asp Ala Ser Gly Val Thr Phe Thr Trp Thr
 290 295 300
 Pro Ser Ser Gly Lys Ser Ala Val Gln Gly Pro Pro Asp Arg Asp Leu
 305 310 315 320
 Cys Gly Cys Tyr Ser Val Ser Ser Val Leu Pro Gly Cys Ala Glu Pro
 325 330 335
 Trp Asn His Gly Lys Thr Phe Thr Cys Thr Ala Ala Tyr Pro Glu Ser
 340 345 350
 Lys Thr Pro Leu Thr Ala Thr Leu Ser Lys Ser Gly Asn Thr Phe Arg
 355 360 365
 Pro Glu Val His Leu Leu Pro Pro Pro Ser Glu Glu Leu Ala Leu Asn
 370 375 380
 Glu Leu Val Thr Leu Thr Cys Leu Ala Arg Gly Phe Ser Pro Lys Asp
 385 390 395 400
 Val Leu Val Arg Trp Leu Gln Gly Ser Gln Glu Leu Pro Arg Glu Lys
 405 410 415
 Tyr Leu Thr Trp Ala Ser Arg Gln Glu Pro Ser Gln Gly Thr Thr Thr
 420 425 430
 Phe Ala Val Thr Ser Ile Leu Arg Val Ala Ala Glu Asp Trp Lys Lys
 435 440 445
 Gly Asp Thr Phe Ser Cys Met Val Gly His Glu Ala Leu Pro Leu Ala
 450 455 460
 Phe Thr Gln Lys Thr Ile Asp Arg Leu Ala Gly Lys Pro Thr His Val
 465 470 475 480
 Asn Val Ser Val Val Met Ala Xaa Val Xaa Gly Pro Cys Xaa Xaa Ala
 485 490 495

Ala Arg Leu Ser Pro Pro Leu Asn Xaa Leu His Ala Pro Pro Lys Lys
 500 505 510

Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys
 515 520 525

Lys Lys
 530

<210> 2190
 <211> 265
 <212> PRT
 <213> Homo sapiens

<400> 2190
 Met Gly Gly Gln Val Ala Gly Val Tyr Ala Ala Tyr Tyr Pro Ser Asp
 1 5 10 15
 Val Ser Ser Leu Cys Leu Val Cys Pro Ala Gly Leu Gln Tyr Ser Thr
 20 25 30
 Asp Asn Gln Phe Val Gln Arg Leu Lys Glu Leu Gln Gly Ser Ala Ala
 35 40 45
 Val Glu Lys Ile Pro Leu Ile Pro Ser Thr Pro Glu Glu Met Ser Glu
 50 55 60
 Met Leu Gln Leu Cys Ser Tyr Val Arg Phe Lys Val Pro Gln Gln Ile
 65 70 75 80
 Leu Gln Gly Leu Val Asp Val Arg Ile Pro His Asn Asn Phe Tyr Arg
 85 90 95
 Lys Leu Phe Leu Glu Ile Val Ser Glu Lys Ser Arg Tyr Ser Leu His
 100 105 110
 Gln Asn Met Asp Lys Ile Lys Val Pro Thr Gln Ile Ile Trp Gly Lys
 115 120 125
 Gln Asp Ala Gly Ala Gly Cys Val Trp Gly Arg His Val Gly Gln Val
 130 135 140
 Asn Cys Gln Leu Pro Gly Gly Ala Ser Gly Lys Leu Trp Ala Leu Ser
 145 150 155 160
 Ser Asp Gly Lys Thr Gln Glu Asp Ser Gln Ala His Asn Arg Leu Phe
 165 170 175
 Ser Phe Cys Ala Gln His Arg Gln Gln Gln Glu Ala Gly Leu Arg Pro
 180 185 190
 Arg Leu Gln Pro Ala Phe Cys Thr Gln His Leu Leu Pro Ser Pro Lys
 195 200 205
 Ser Asp Ala Ala Thr Thr Leu Arg Asp Pro Ala Pro Asn Ala Val Gly
 210 215 220
 Ala Pro Val Thr Leu Arg Lys Pro Val Pro Tyr Pro Trp Tyr Pro Arg

225 230 235 240
 Phe Pro Arg Ala Leu Gly Thr Thr Arg Lys Pro Pro Arg Tyr Phe Ser
 245 250 255

Gln Asn Arg Asn Ser Tyr Gly Thr Lys
 260 265

<210> 2191
 <211> 99
 <212> PRT
 <213> Homo sapiens

<400> 2191
 Met Ala Val Trp Gly Asp Thr Glu Leu Ala Ala Gly Val Phe Cys Phe
 1 5 10 15
 Phe Leu Phe Phe Cys Phe Leu Tyr Leu Ser Gly Thr Trp Asn Ala Ser
 20 25 30
 Lys Thr Glu Leu Phe Thr Pro Leu Glu Arg Glu Leu Lys Pro Gly His
 35 40 45
 Pro Ser Gly Met Leu Ser Gly Ser His Pro His Gly Ala Gln Gln Ala
 50 55 60
 Lys Ser Thr Gly Leu Lys Leu Ser Leu Pro Ala Gln Gln Ser Glu Val
 65 70 75 80
 Asp Leu Gly Cys Ser Ser Leu Val Trp Gly Gly Ala Ser Ala Ile Thr
 85 90 95
 Glu Ala Leu

<210> 2192
 <211> 144
 <212> PRT
 <213> Homo sapiens

<400> 2192
 Met Pro Thr Thr Thr Glu Gln Pro Val Thr Thr Thr Phe Pro Val Thr
 1 5 10 15
 Thr Gly Leu Lys Pro Thr Val Ala Leu Cys Gln Gln Lys Cys Arg Arg
 20 25 30
 Thr Gly Thr Leu Glu Gly Asn Tyr Cys Ser Ser Asp Phe Val Leu Ala
 35 40 45
 Gly Thr Val Ile Thr Thr Ile Thr Arg Asp Gly Ser Leu His Ala Thr
 50 55 60
 Val Ser Ile Ile Asn Ile Tyr Lys Glu Gly Asn Leu Ala Ile Gln Gln
 65 70 75 80

Ala Gly Lys Asn Met Ser Ala Arg Leu Thr Val Val Cys Lys Gln Cys
 85 90 95

Pro Leu Leu Arg Arg Gly Leu Asn Tyr Ile Ile Met Gly Gln Val Gly
 100 105 110

Glu Asp Gly Arg Gly Lys Ile Met Pro Asn Ser Phe Ile Met Met Phe
 115 120 125

Lys Thr Lys Asn Gln Lys Leu Leu Asp Ala Leu Lys Asn Lys Gln Cys
 130 135 140

<210> 2193

<211> 294

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (93)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (97)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2193

Met Met Val Gln Met Ile Ser Asp Ala Asn Thr Ala Gly Asn Gly Phe
 1 5 10 15

Met Ala Met Phe Ser Ala Ala Glu Pro Asn Glu Arg Gly Asp Gln Tyr
 20 25 30

Cys Gly Gly Leu Leu Asp Arg Pro Ser Gly Ser Phe Lys Thr Pro Asn
 35 40 45

Trp Pro Asp Arg Asp Tyr Pro Ala Gly Val Thr Cys Val Trp His Ile
 50 55 60

Val Ala Pro Lys Asn Gln Leu Ile Glu Leu Lys Phe Glu Lys Phe Asp
 65 70 75 80

Val Glu Arg Asp Asn Tyr Cys Arg Tyr Asp Tyr Val Xaa Val Phe Asn
 85 90 95

Xaa Gly Glu Val Asn Asp Ala Arg Arg Ile Gly Lys Tyr Cys Gly Asp
 100 105 110

Ser Pro Pro Ala Pro Ile Val Ser Glu Arg Asn Glu Leu Leu Ile Gln
 115 120 125

Phe Leu Ser Asp Leu Ser Leu Thr Ala Asp Gly Phe Ile Gly His Tyr
 130 135 140

Ile Phe Arg Pro Lys Lys Leu Pro Thr Thr Thr Glu Gln Pro Val Thr
 145 150 155 160
 Thr Thr Phe Pro Val Thr Thr Gly Leu Lys Pro Thr Val Ala Leu Cys
 165 170 175
 Gln Gln Lys Cys Arg Arg Thr Gly Thr Leu Glu Gly Asn Tyr Cys Ser
 180 185 190
 Ser Asp Phe Val Leu Ala Gly Thr Val Ile Thr Thr Ile Thr Arg Asp
 195 200 205
 Gly Ser Leu His Ala Thr Val Ser Ile Ile Asn Ile Tyr Lys Glu Gly
 210 215 220
 Asn Leu Ala Ile Gln Gln Ala Gly Lys Asn Met Ser Ala Arg Leu Thr
 225 230 235 240
 Val Val Cys Lys Gln Cys Pro Leu Leu Arg Arg Gly Leu Asn Tyr Ile
 245 250 255
 Ile Met Gly Gln Val Gly Glu Asp Gly Arg Gly Lys Ile Met Pro Asn
 260 265 270
 Ser Phe Ile Met Met Phe Lys Thr Lys Asn Gln Lys Leu Leu Asp Ala
 275 280 285
 Leu Lys Asn Lys Gln Cys
 290

<210> 2194

<211> 487

<212> PRT

<213> Homo sapiens

<400> 2194

Met Lys His Leu Trp Phe Phe Leu Leu Leu Val Ala Ala Pro Arg Trp
 1 5 10 15
 Val Leu Ser Gln Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys
 20 25 30
 Pro Ser Glu Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Gly Ser Ile
 35 40 45
 Ser Ser Gly Gly His Tyr Trp Ser Trp Ile Arg Gln His Pro Gly Lys
 50 55 60
 Gly Leu Glu Trp Ile Gly Tyr Ile Ser Tyr Asn Gly Val Thr Tyr Tyr
 65 70 75 80
 Asn Pro Ser Leu Lys Ser Arg Val Thr Ile Ser Val Asp Thr Ser Gln
 85 90 95
 Asn Gln Phe Ser Leu Arg Leu Ser Ser Val Thr Ala Ala Asp Thr Ala
 100 105 110
 Val Tyr Tyr Cys Ala Lys Asp His Arg Ala Thr Arg Asp Gly Tyr Gln
 1454

115					120					125					
Leu	Glu	Tyr	Arg	Gly	Phe	Asp	Tyr	Trp	Gly	Gln	Gly	Ile	Leu	Val	Thr
130						135					140				
Val	Ser	Ser	Ala	Ser	Pro	Thr	Ser	Pro	Lys	Val	Phe	Pro	Leu	Ser	Leu
145						150					155				160
Asp	Ser	Thr	Pro	Gln	Asp	Gly	Asn	Val	Val	Val	Ala	Cys	Leu	Val	Gln
				165					170					175	
Gly	Phe	Phe	Pro	Gln	Glu	Pro	Leu	Ser	Val	Thr	Trp	Ser	Glu	Ser	Gly
			180					185					190		
Gln	Asn	Val	Thr	Ala	Arg	Asn	Phe	Pro	Pro	Ser	Gln	Asp	Ala	Ser	Gly
		195					200					205			
Asp	Leu	Tyr	Thr	Thr	Ser	Ser	Gln	Leu	Thr	Leu	Pro	Ala	Thr	Gln	Cys
	210					215					220				
Pro	Asp	Gly	Lys	Ser	Val	Thr	Cys	His	Val	Lys	His	Tyr	Thr	Asn	Pro
225						230					235				240
Ser	Gln	Asp	Val	Thr	Val	Pro	Cys	Pro	Val	Pro	Pro	Pro	Pro	Pro	Cys
			245						250					255	
Cys	His	Pro	Arg	Leu	Ser	Leu	His	Arg	Pro	Ala	Leu	Glu	Asp	Leu	Leu
			260					265					270		
Leu	Gly	Ser	Glu	Ala	Asn	Leu	Thr	Cys	Thr	Leu	Thr	Gly	Leu	Arg	Asp
		275					280					285			
Ala	Ser	Gly	Ala	Thr	Phe	Thr	Trp	Thr	Pro	Ser	Ser	Gly	Lys	Ser	Ala
		290				295						300			
Val	Gln	Gly	Pro	Pro	Glu	Arg	Asp	Leu	Cys	Gly	Cys	Tyr	Ser	Val	Ser
305						310					315				320
Ser	Val	Leu	Pro	Gly	Cys	Ala	Gln	Pro	Trp	Asn	His	Gly	Glu	Thr	Phe
				325					330					335	
Thr	Cys	Thr	Ala	Ala	His	Pro	Glu	Leu	Lys	Thr	Pro	Leu	Thr	Ala	Asn
			340					345					350		
Ile	Thr	Lys	Ser	Gly	Asn	Thr	Phe	Arg	Pro	Glu	Val	His	Leu	Leu	Pro
		355					360					365			
Pro	Pro	Ser	Glu	Glu	Leu	Ala	Leu	Asn	Glu	Leu	Val	Thr	Leu	Thr	Cys
		370				375					380				
Leu	Ala	Arg	Gly	Phe	Ser	Pro	Lys	Asp	Val	Leu	Val	Arg	Trp	Leu	Gln
385						390					395				400
Gly	Ser	Gln	Glu	Leu	Pro	Arg	Glu	Lys	Tyr	Leu	Thr	Trp	Ala	Ser	Arg
			405						410				415		
Gln	Glu	Pro	Ser	Gln	Gly	Thr	Thr	Thr	Phe	Ala	Val	Thr	Ser	Ile	Leu
			420					425					430		
Arg	Val	Ala	Ala	Glu	Asp	Trp	Lys	Lys	Gly	Asp	Thr	Phe	Ser	Cys	Met

435

440

445

Val Gly His Glu Ala Leu Pro Leu Ala Phe Thr Gln Lys Thr Ile Asp
 450 455 460

Arg Leu Ala Gly Lys Pro Thr His Val Asn Val Ser Val Val Met Ala
 465 470 475 480

Glu Val Asp Gly Thr Cys Tyr
 485

<210> 2195

<211> 189

<212> PRT

<213> Homo sapiens

<400> 2195

Met Gly Gly Gln Val Ala Gly Val Tyr Ala Ala Tyr Tyr Pro Ser Asp
 1 5 10 15

Val Ser Ser Leu Cys Leu Val Cys Pro Ala Gly Leu Gln Tyr Ser Thr
 20 25 30

Asp Asn Gln Phe Val Gln Arg Leu Lys Glu Leu Gln Gly Ser Ala Ala
 35 40 45

Val Glu Lys Ile Pro Leu Ile Pro Ser Thr Pro Glu Glu Met Ser Glu
 50 55 60

Met Leu Gln Leu Cys Ser Tyr Val Arg Phe Lys Val Pro Gln Gln Ile
 65 70 75 80

Leu Gln Gly Leu Val Asp Val Arg Ile Pro His Asn Asn Phe Tyr Arg
 85 90 95

Lys Leu Phe Leu Glu Ile Val Ser Glu Lys Ser Arg Tyr Ser Leu His
 100 105 110

Gln Asn Met Asp Lys Ile Lys Val Pro Thr Gln Ile Ile Trp Gly Lys
 115 120 125

Gln Asp Gln Val Leu Asp Val Ser Gly Ala Asp Met Leu Ala Lys Ser
 130 135 140

Ile Ala Asn Cys Gln Val Glu Leu Leu Glu Asn Cys Gly His Ser Val
 145 150 155 160

Val Met Glu Arg Pro Arg Lys Thr Ala Lys Leu Ile Ile Asp Phe Leu
 165 170 175

Ala Ser Val His Asn Thr Asp Asn Asn Lys Lys Leu Asp
 180 185

<210> 2196

<211> 298

<212> PRT

<213> Homo sapiens

<400> 2196

Met Lys Thr Leu Gln Ser Thr Leu Leu Leu Leu Leu Val Pro Leu
 1 5 10 15

Ile Lys Pro Ala Pro Pro Thr Gln Gln Asp Ser Arg Ile Ile Tyr Asp
 20 25 30

Tyr Gly Thr Asp Asn Phe Glu Glu Ser Ile Phe Ser Gln Asp Tyr Glu
 35 40 45

Asp Lys Tyr Leu Asp Gly Lys Asn Ile Lys Glu Lys Glu Thr Val Ile
 50 55 60

Ile Pro Asn Glu Lys Ser Leu Gln Leu Gln Lys Asp Glu Ala Ile Thr
 65 70 75 80

Pro Leu Pro Pro Lys Lys Glu Asn Asp Glu Met Pro Thr Cys Leu Leu
 85 90 95

Cys Val Cys Leu Ser Gly Ser Val Tyr Cys Glu Glu Val Asp Ile Asp
 100 105 110

Ala Val Pro Pro Leu Pro Lys Glu Ser Ala Tyr Leu Tyr Ala Arg Phe
 115 120 125

Asn Lys Ile Lys Lys Leu Thr Ala Lys Asp Phe Ala Asp Ile Pro Asn
 130 135 140

Leu Arg Arg Leu Asp Phe Thr Gly Asn Leu Ile Glu Asp Ile Glu Asp
 145 150 155 160

Gly Thr Phe Ser Lys Leu Ser Leu Leu Glu Glu Leu Ser Leu Ala Glu
 165 170 175

Asn Gln Leu Leu Lys Leu Pro Val Leu Pro Pro Lys Leu Thr Leu Phe
 180 185 190

Asn Ala Lys Tyr Asn Lys Ile Lys Ser Arg Gly Ile Lys Ala Asn Ala
 195 200 205

Phe Lys Lys Leu Asn Asn Leu Thr Phe Leu Tyr Leu Asp His Asn Ala
 210 215 220

Leu Glu Ser Val Pro Leu Asn Leu Pro Glu Ser Leu Arg Val Ile His
 225 230 235 240

Leu Gln Phe Asn Asn Ile Ala Ser Ile Thr Asp Asp Thr Phe Cys Lys
 245 250 255

Ala Asn Asp Thr Ser Tyr Ile Arg Asp Arg Ile Glu Glu Ile Arg Leu
 260 265 270

Glu Gly Asn Pro Ile Val Leu Gly Lys His Pro Asn Ser Phe Ile Cys
 275 280 285

Leu Lys Arg Leu Pro Ile Gly Ser Tyr Phe
 290 295

<210> 2197

<211> 298

<212> PRT

<213> Homo sapiens

<400> 2197

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Met Lys Thr Leu Gln Ser Thr Leu Leu Leu Leu Leu Val Pro Leu
  1              5              10              15

Ile Lys Pro Ala Pro Pro Thr Gln Gln Asp Ser Arg Ile Ile Tyr Asp
      20              25              30

Tyr Gly Thr Asp Asn Phe Glu Glu Ser Ile Phe Ser Gln Asp Tyr Glu
      35              40              45

Asp Lys Tyr Leu Asp Gly Lys Asn Ile Lys Glu Lys Glu Thr Val Ile
      50              55              60

Ile Pro Asn Glu Lys Ser Leu Gln Leu Gln Lys Asp Glu Ala Ile Thr
      65              70              75              80

Pro Leu Pro Pro Lys Lys Glu Asn Asp Glu Met Pro Thr Cys Leu Leu
      85              90              95

Cys Val Cys Leu Ser Gly Ser Val Tyr Cys Glu Glu Val Asp Ile Asp
      100              105              110

Ala Val Pro Pro Leu Pro Lys Glu Ser Ala Tyr Leu Tyr Ala Arg Phe
      115              120              125

Asn Lys Ile Lys Lys Leu Thr Ala Lys Asp Phe Ala Asp Ile Pro Asn
      130              135              140

Leu Arg Arg Leu Asp Phe Thr Gly Asn Leu Ile Glu Asp Ile Glu Asp
      145              150              155              160

Gly Thr Phe Ser Lys Leu Ser Leu Leu Glu Glu Leu Ser Leu Ala Glu
      165              170              175

Asn Gln Leu Leu Lys Leu Pro Val Leu Pro Pro Lys Leu Thr Leu Phe
      180              185              190

Asn Ala Lys Tyr Asn Lys Ile Lys Ser Arg Gly Ile Lys Ala Asn Ala
      195              200              205

Phe Lys Lys Leu Asn Asn Leu Thr Phe Leu Tyr Leu Asp His Asn Ala
      210              215              220

Leu Glu Ser Val Pro Leu Asn Leu Pro Glu Ser Leu Arg Val Ile His
      225              230              235              240

Leu Gln Phe Asn Asn Ile Ala Ser Ile Thr Asp Asp Thr Phe Cys Lys
      245              250              255

Ala Asn Asp Thr Ser Tyr Ile Arg Asp Arg Ile Glu Glu Ile Arg Leu
      260              265              270

Glu Gly Asn Pro Ile Val Leu Gly Lys His Pro Asn Ser Phe Ile Cys
      1458

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275

280

285

Leu Lys Arg Leu Pro Ile Gly Ser Tyr Phe
 290 295

<210> 2198

<211> 42

<212> PRT

<213> Homo sapiens

<400> 2198

Met Glu Cys Lys Lys Arg Ile Gln Leu Ile Met Leu Ala Ser Ile Val
 1 5 10 15

Arg Leu Pro Pro Thr Glu Gln Ser Gly Leu Leu Lys Thr Arg Phe His
 20 25 30

Asn Phe Cys Gln Arg Asn Leu Gln Ser Ser
 35 40

<210> 2199

<211> 472

<212> PRT

<213> Homo sapiens

<400> 2199

Met Ile Arg Thr Arg Arg Gly Trp Ser Ser Met Trp Pro Trp Ile Gly
 1 5 10 15

Val Gly Tyr Leu Ala Gly Cys Leu Val His Ala Leu Gly Glu Lys Gln
 20 25 30

Pro Glu Leu Gln Ile Ser Glu Arg Asp Val Leu Cys Val Gln Ile Ala
 35 40 45

Gly Leu Cys His Asp Leu Gly His Gly Pro Phe Ser His Met Phe Asp
 50 55 60

Gly Arg Phe Ile Pro Leu Ala Arg Pro Glu Val Lys Trp Thr His Glu
 65 70 75 80

Gln Gly Ser Val Met Met Phe Glu His Leu Ile Asn Ser Asn Gly Ile
 85 90 95

Lys Pro Val Met Glu Gln Tyr Gly Leu Ile Pro Glu Glu Asp Ile Cys
 100 105 110

Phe Ile Lys Glu Gln Ile Val Gly Pro Leu Glu Ser Pro Val Glu Asp
 115 120 125

Ser Leu Trp Pro Tyr Lys Gly Arg Pro Glu Asn Lys Ser Phe Leu Tyr
 130 135 140

Glu Ile Val Ser Asn Lys Arg Asn Gly Ile Asp Val Asp Lys Trp Asp
 145 150 155 160

Tyr Phe Ala Arg Asp Cys His His Leu Gly Ile Gln Asn Asn Phe Asp
 165 170 175
 Tyr Lys Arg Phe Ile Lys Phe Ala Arg Val Cys Glu Val Asp Asn Glu
 180 185 190
 Leu Arg Ile Cys Ala Arg Asp Lys Glu Val Gly Asn Leu Tyr Asp Met
 195 200 205
 Phe His Thr Arg Asn Ser Leu His Arg Arg Ala Tyr Gln His Lys Val
 210 215 220
 Gly Asn Ile Ile Asp Thr Met Ile Thr Asp Ala Phe Leu Glu Ala Asp
 225 230 235 240
 Asp Tyr Ile Glu Ile Thr Gly Ala Gly Gly Lys Lys Tyr Arg Ile Ser
 245 250 255
 Thr Ala Ile Asp Asp Met Glu Ala Tyr Thr Lys Leu Thr Asp Asn Ile
 260 265 270
 Phe Leu Glu Ile Leu Tyr Ser Thr Asp Pro Lys Leu Lys Asp Ala Arg
 275 280 285
 Glu Ile Leu Lys Gln Ile Glu Tyr Arg Asn Leu Phe Lys Tyr Val Gly
 290 295 300
 Glu Thr Gln Pro Thr Gly Gln Ile Lys Ile Lys Arg Glu Asp Tyr Glu
 305 310 315 320
 Ser Leu Pro Lys Glu Val Ala Ser Ala Lys Pro Lys Val Leu Leu Asp
 325 330 335
 Val Lys Leu Lys Ala Glu Asp Phe Ile Val Asp Val Ile Asn Met Asp
 340 345 350
 Tyr Gly Met Gln Glu Lys Asn Pro Ile Asp His Val Ser Phe Tyr Cys
 355 360 365
 Lys Thr Ala Pro Asn Arg Ala Ile Arg Ile Thr Lys Asn Gln Val Ser
 370 375 380
 Gln Leu Leu Pro Glu Lys Phe Ala Glu Gln Leu Ile Arg Val Tyr Cys
 385 390 395 400
 Lys Lys Val Asp Arg Lys Ser Leu Tyr Ala Ala Arg Gln Tyr Phe Val
 405 410 415
 Gln Trp Cys Ala Asp Arg Asn Phe Thr Lys Pro Gln Asp Gly Asp Val
 420 425 430
 Ile Ala Pro Leu Ile Thr Pro Gln Lys Lys Glu Trp Asn Asp Ser Thr
 435 440 445
 Ser Val Gln Asn Pro Thr Arg Leu Arg Glu Ala Ser Lys Ser Arg Val
 450 455 460
 Gln Leu Phe Lys Asp Asp Pro Met
 465 470

<210> 2200
 <211> 626
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (353)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (354)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (363)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 2200
 Met Gln Arg Ala Asp Ser Glu Gln Pro Ser Lys Arg Pro Arg Cys Asp
 1 5 10 15
 Asp Ser Pro Arg Thr Pro Ser Asn Thr Pro Ser Ala Glu Ala Asp Trp
 20 25 30
 Ser Pro Gly Leu Glu Leu His Pro Asp Tyr Lys Thr Trp Gly Pro Glu
 35 40 45
 Gln Val Cys Ser Phe Leu Arg Arg Gly Gly Phe Glu Glu Pro Val Leu
 50 55 60
 Leu Lys Asn Ile Arg Glu Asn Glu Ile Thr Gly Ala Leu Leu Pro Cys
 65 70 75 80
 Leu Asp Glu Ser Arg Phe Glu Asn Leu Gly Val Ser Ser Leu Gly Glu
 85 90 95
 Arg Lys Lys Leu Leu Ser Tyr Ile Gln Arg Leu Val Gln Ile His Val
 100 105 110
 Asp Thr Met Lys Val Ile Asn Asp Pro Ile His Gly His Ile Glu Leu
 115 120 125
 His Pro Leu Leu Val Arg Ile Ile Asp Thr Pro Gln Phe Gln Arg Leu
 130 135 140
 Arg Tyr Ile Lys Gln Leu Gly Gly Gly Tyr Tyr Val Phe Pro Gly Ala
 145 150 155 160
 Ser His Asn Arg Phe Glu His Ser Leu Gly Val Gly Tyr Leu Ala Gly
 165 170 175
 Cys Leu Val His Ala Leu Gly Glu Lys Gln Pro Glu Leu Gln Ile Ser
 180 185 190
 Glu Arg Asp Val Leu Cys Val Gln Ile Ala Gly Leu Cys His Asp Leu

195					200					205					
Gly	His	Gly	Pro	Phe	Ser	His	Met	Phe	Asp	Gly	Arg	Phe	Ile	Pro	Leu
210						215					220				
Ala	Arg	Pro	Glu	Val	Lys	Trp	Thr	His	Glu	Gln	Gly	Ser	Val	Met	Met
225					230					235					240
Phe	Glu	His	Leu	Ile	Asn	Ser	Asn	Gly	Ile	Lys	Pro	Val	Met	Glu	Gln
				245					250					255	
Tyr	Gly	Leu	Ile	Pro	Glu	Glu	Asp	Ile	Cys	Phe	Ile	Lys	Glu	Gln	Ile
			260					265					270		
Val	Gly	Pro	Leu	Glu	Ser	Pro	Val	Glu	Asp	Ser	Leu	Trp	Pro	Tyr	Lys
		275					280					285			
Gly	Arg	Pro	Glu	Asn	Lys	Ser	Phe	Leu	Tyr	Glu	Ile	Val	Ser	Asn	Lys
290						295					300				
Arg	Asn	Gly	Ile	Asp	Val	Asp	Lys	Trp	Asp	Tyr	Phe	Ala	Arg	Asp	Cys
305					310					315					320
His	His	Leu	Gly	Ile	Gln	Asn	Asn	Phe	Asp	Tyr	Lys	Arg	Phe	Ile	Lys
				325					330					335	
Phe	Ala	Arg	Val	Cys	Glu	Val	Asp	Asn	Glu	Leu	Arg	Ile	Cys	Ala	Arg
			340					345					350		
Xaa	Xaa	Glu	Val	Gly	Asn	Leu	Tyr	Asp	Met	Xaa	His	Thr	Arg	Asn	Ser
		355					360						365		
Leu	His	Arg	Arg	Ala	Tyr	Gln	His	Lys	Val	Gly	Asn	Ile	Ile	Asp	Thr
	370					375					380				
Met	Ile	Thr	Asp	Ala	Phe	Leu	Lys	Ala	Asp	Asp	Tyr	Ile	Glu	Ile	Thr
385					390					395					400
Gly	Ala	Gly	Gly	Lys	Lys	Tyr	Arg	Ile	Ser	Thr	Ala	Ile	Asp	Asp	Met
				405					410					415	
Glu	Ala	Tyr	Thr	Lys	Leu	Thr	Asp	Asn	Ile	Phe	Leu	Glu	Ile	Leu	Tyr
			420					425					430		
Ser	Thr	Asp	Pro	Lys	Leu	Lys	Asp	Ala	Arg	Glu	Ile	Leu	Lys	Gln	Ile
		435					440					445			
Glu	Tyr	Arg	Asn	Leu	Phe	Lys	Tyr	Val	Gly	Glu	Thr	Gln	Pro	Thr	Gly
	450					455					460				
Gln	Ile	Lys	Ile	Lys	Arg	Glu	Asp	Tyr	Glu	Ser	Leu	Pro	Lys	Glu	Val
465					470					475					480
Ala	Ser	Ala	Lys	Pro	Lys	Val	Leu	Leu	Asp	Val	Lys	Leu	Lys	Ala	Glu
				485					490					495	
Asp	Phe	Ile	Val	Asp	Val	Ile	Asn	Met	Asp	Tyr	Gly	Met	Gln	Glu	Lys
			500					505					510		
Asn	Pro	Ile	Asp	His	Val	Ser	Phe	Tyr	Cys	Lys	Thr	Ala	Pro	Asn	Arg

515	520	525
Ala Ile Arg Ile Thr Lys	Asn Gln Val Ser Gln Leu Leu Pro Glu Lys	
530	535	540
Phe Ala Glu Gln Leu Ile Arg Val Tyr Cys Lys Lys Val Asp Arg Lys		
545	550	555 560
Ser Leu Tyr Ala Ala Arg Gln Tyr Phe Val Gln Trp Cys Ala Asp Arg		
565	570	575
Asn Phe Thr Lys Pro Gln Asp Gly Asp Val Ile Ala Pro Leu Ile Thr		
580	585	590
Pro Gln Lys Lys Glu Trp Asn Asp Ser Thr Ser Val Gln Asn Pro Thr		
595	600	605
Arg Leu Arg Glu Ala Ser Lys Ser Arg Val Gln Leu Phe Lys Asp Asp		
610	615	620
Pro Met		
625		

<210> 2201

<211> 245

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (128)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2201

Met Glu Gly Pro Arg Gly Trp Leu Val Leu Cys Val Leu Ala Ile Ser		
1	5	10 15
Leu Ala Ser Met Val Thr Glu Asp Leu Cys Arg Ala Pro Asp Gly Lys		
20	25	30
Lys Gly Glu Ala Gly Arg Pro Gly Arg Arg Gly Arg Pro Gly Leu Lys		
35	40	45
Gly Glu Gln Gly Glu Pro Gly Ala Pro Gly Ile Arg Thr Gly Ile Gln		
50	55	60
Gly Leu Lys Gly Asp Gln Gly Glu Pro Gly Pro Ser Gly Asn Pro Gly		
65	70	75 80
Lys Val Gly Tyr Pro Gly Pro Ser Gly Pro Leu Gly Ala Arg Gly Ile		
85	90	95
Pro Gly Ile Lys Gly Thr Lys Gly Ser Pro Gly Asn Ile Lys Asp Gln		
100	105	110
Pro Arg Pro Ala Phe Ser Ala Ile Arg Arg Asn Pro Pro Met Gly Xaa		
115	120	125

Asn Val Val Ile Phe Asp Thr Val Ile Thr Asn Gln Glu Glu Pro Tyr
 130 135 140
 Gln Asn His Ser Gly Arg Phe Val Cys Thr Val Pro Gly Tyr Tyr Tyr
 145 150 155 160
 Phe Thr Phe Gln Val Leu Ser Gln Trp Glu Ile Cys Leu Ser Ile Val
 165 170 175
 Ser Ser Ser Arg Gly Gln Val Arg Arg Ser Leu Gly Phe Cys Asp Thr
 180 185 190
 Thr Asn Lys Gly Leu Phe Gln Val Val Ser Gly Gly Met Val Leu Gln
 195 200 205
 Leu Gln Gln Gly Asp Gln Val Trp Val Glu Lys Asp Pro Lys Lys Gly
 210 215 220
 His Ile Tyr Gln Gly Ser Glu Ala Asp Ser Val Phe Ser Gly Phe Leu
 225 230 235 240
 Ile Phe Pro Ser Ala
 245

<210> 2202
 <211> 32
 <212> PRT
 <213> Homo sapiens

<400> 2202
 Met Gly Val Asn Lys Val Leu Phe Thr Phe Phe Phe Phe Ser Ser Leu
 1 5 10 15
 Leu Asp Gly Val Gly Thr Ser His Ser Leu Ala Ser Phe Pro His Thr
 20 25 30

<210> 2203
 <211> 245
 <212> PRT
 <213> Homo sapiens

<400> 2203
 Met Glu Gly Pro Arg Gly Trp Leu Val Leu Cys Val Leu Ala Ile Ser
 1 5 10 15
 Leu Ala Ser Met Val Thr Glu Asp Leu Cys Arg Ala Pro Asp Gly Lys
 20 25 30
 Lys Gly Glu Ala Gly Arg Pro Gly Arg Arg Gly Arg Pro Gly Leu Lys
 35 40 45
 Gly Glu Gln Gly Glu Pro Gly Ala Pro Gly Ile Arg Thr Gly Ile Gln
 50 55 60

Gly Leu Lys Gly Asp Gln Gly Glu Pro Gly Pro Ser Gly Asn Pro Gly
 65 70 75 80
 Lys Val Gly Tyr Pro Gly Pro Ser Gly Pro Leu Gly Ala Arg Gly Ile
 85 90 95
 Pro Gly Ile Lys Gly Thr Lys Gly Ser Pro Gly Asn Ile Lys Asp Gln
 100 105 110
 Pro Arg Pro Ala Phe Ser Ala Ile Arg Arg Asn Pro Pro Met Gly Gly
 115 120 125
 Asn Val Val Ile Phe Asp Thr Val Ile Thr Asn Gln Glu Glu Pro Tyr
 130 135 140
 Gln Asn His Ser Gly Arg Phe Val Cys Thr Val Pro Gly Tyr Tyr Tyr
 145 150 155 160
 Phe Thr Phe Gln Val Leu Ser Gln Trp Glu Ile Cys Leu Ser Ile Val
 165 170 175
 Ser Ser Ser Arg Gly Gln Val Arg Arg Ser Leu Gly Phe Cys Asp Thr
 180 185 190
 Thr Asn Lys Gly Leu Phe Gln Val Val Ser Gly Gly Met Val Leu Gln
 195 200 205
 Leu Gln Gln Gly Asp Gln Val Trp Val Glu Lys Asp Pro Lys Lys Gly
 210 215 220
 His Ile Tyr Gln Gly Ser Glu Ala Asp Ser Val Phe Ser Gly Phe Leu
 225 230 235 240
 Ile Phe Pro Ser Ala
 245

<210> 2204

<211> 245

<212> PRT

<213> Homo sapiens

<400> 2204

Met Glu Gly Pro Arg Gly Trp Leu Val Leu Cys Val Leu Ala Ile Ser
 1 5 10 15
 Leu Ala Ser Met Val Thr Glu Asp Leu Cys Arg Ala Pro Asp Gly Lys
 20 25 30
 Lys Gly Glu Ala Gly Arg Pro Gly Arg Arg Gly Arg Pro Gly Leu Lys
 35 40 45
 Gly Glu Gln Gly Glu Pro Gly Ala Pro Gly Ile Arg Thr Gly Ile Gln
 50 55 60
 Gly Leu Lys Gly Asp Gln Gly Glu Pro Gly Pro Ser Gly Asn Pro Gly
 65 70 75 80

Lys Val Gly Tyr Pro Gly Pro Ser Gly Pro Leu Gly Ala Arg Gly Ile
 85 90 95
 Pro Gly Ile Lys Gly Thr Lys Gly Ser Pro Gly Asn Ile Lys Asp Gln
 100 105 110
 Pro Arg Pro Ala Phe Ser Ala Ile Arg Arg Asn Pro Pro Met Gly Gly
 115 120 125
 Asn Val Val Ile Phe Asp Thr Val Ile Thr Asn Gln Glu Glu Pro Tyr
 130 135 140
 Gln Asn His Ser Gly Arg Phe Val Cys Thr Val Pro Gly Tyr Tyr Tyr
 145 150 155 160
 Phe Thr Phe Gln Val Leu Ser Gln Trp Glu Ile Cys Leu Ser Ile Val
 165 170 175
 Ser Ser Ser Arg Gly Gln Val Arg Arg Ser Leu Gly Phe Cys Asp Thr
 180 185 190
 Thr Asn Lys Gly Leu Phe Gln Val Val Ser Gly Gly Met Val Leu Gln
 195 200 205
 Leu Gln Gln Gly Asp Gln Val Trp Val Glu Lys Asp Pro Lys Lys Gly
 210 215 220
 His Ile Tyr Gln Gly Ser Glu Ala Asp Ser Val Phe Ser Gly Phe Leu
 225 230 235 240
 Ile Phe Pro Ser Ala
 245

<210> 2205

<211> 245

<212> PRT

<213> Homo sapiens

<400> 2205

Met Glu Gly Pro Arg Gly Trp Leu Val Leu Cys Val Leu Ala Ile Ser
 1 5 10 15
 Leu Ala Ser Met Val Thr Glu Asp Leu Cys Arg Ala Pro Asp Gly Lys
 20 25 30
 Lys Gly Glu Ala Gly Arg Pro Gly Arg Arg Gly Arg Pro Gly Leu Lys
 35 40 45
 Gly Glu Gln Gly Glu Pro Gly Ala Pro Gly Ile Arg Thr Gly Ile Gln
 50 55 60
 Gly Leu Lys Gly Asp Gln Gly Glu Pro Gly Pro Ser Gly Asn Pro Gly
 65 70 75 80
 Lys Val Gly Tyr Pro Gly Pro Ser Gly Pro Leu Gly Ala Arg Gly Ile
 85 90 95
 Pro Gly Ile Lys Gly Thr Lys Gly Ser Pro Gly Asn Ile Lys Asp Gln

100	105	110
Pro Arg Pro Ala Phe Ser Ala Ile Arg Arg Asn Pro Pro Met Gly Gly		
115	120	125
Asn Val Val Ile Phe Asp Thr Val Ile Thr Asn Gln Glu Glu Pro Tyr		
130	135	140
Gln Asn His Ser Gly Arg Phe Val Cys Thr Val Pro Gly Tyr Tyr Tyr		
145	150	155
Phe Thr Phe Gln Val Leu Ser Gln Trp Glu Ile Cys Leu Ser Ile Val		
165	170	175
Ser Ser Ser Arg Gly Gln Val Arg Arg Ser Leu Gly Phe Cys Asp Thr		
180	185	190
Thr Asn Lys Gly Leu Phe Gln Val Val Ser Gly Gly Met Val Leu Gln		
195	200	205
Leu Gln Gln Gly Asp Gln Val Trp Val Glu Lys Asp Pro Lys Lys Gly		
210	215	220
His Ile Tyr Gln Gly Ser Glu Ala Asp Ser Val Phe Ser Gly Phe Leu		
225	230	235
Ile Phe Pro Ser Ala		
245		

<210> 2206

<211> 245

<212> PRT

<213> Homo sapiens

<400> 2206

Met Glu Gly Pro Arg Gly Trp Leu Val Leu Cys Val Leu Ala Ile Ser
1 5 10 15
Leu Ala Ser Met Val Thr Glu Asp Leu Cys Arg Ala Pro Asp Gly Lys
20 25 30
Lys Gly Glu Ala Gly Arg Pro Gly Arg Arg Gly Arg Pro Gly Leu Lys
35 40 45
Gly Glu Gln Gly Glu Pro Gly Ala Pro Gly Ile Arg Thr Gly Ile Gln
50 55 60
Gly Leu Lys Gly Asp Gln Gly Glu Pro Gly Pro Ser Gly Asn Pro Gly
65 70 75 80
Lys Val Gly Tyr Pro Gly Pro Ser Gly Pro Leu Gly Ala Arg Gly Ile
85 90 95
Pro Gly Ile Lys Gly Thr Lys Gly Ser Pro Gly Asn Ile Lys Asp Gln
100 105 110
Pro Arg Pro Ala Phe Ser Ala Ile Arg Arg Asn Pro Pro Met Gly Gly
115 120 125

Asn Val Val Ile Phe Asp Thr Val Ile Thr Asn Gln Glu Glu Pro Tyr
 130 135 140
 Gln Asn His Ser Gly Arg Phe Val Cys Thr Val Pro Gly Tyr Tyr Tyr
 145 150 155 160
 Phe Thr Phe Gln Val Leu Ser Gln Trp Glu Ile Cys Leu Ser Ile Val
 165 170 175
 Ser Ser Ser Arg Gly Gln Val Arg Arg Ser Leu Gly Phe Cys Asp Thr
 180 185 190
 Thr Asn Lys Gly Leu Phe Gln Val Val Ser Gly Gly Met Val Leu Gln
 195 200 205
 Leu Gln Gln Gly Asp Gln Val Trp Val Glu Lys Asp Pro Lys Lys Gly
 210 215 220
 His Ile Tyr Gln Gly Ser Glu Ala Asp Ser Val Phe Ser Gly Phe Leu
 225 230 235 240
 Ile Phe Pro Ser Ala
 245

<210> 2207

<211> 229

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (47)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (49)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2207

Met Glu Gly Pro Arg Gly Trp Leu Val Leu Cys Val Leu Ala Ile Ser
 1 5 10 15

Leu Ala Ser Met Val Thr Glu Asp Leu Cys Arg Ala Pro Asp Gly Lys
 20 25 30

Lys Gly Glu Ala Gly Arg Pro Gly Arg Arg Gly Arg Pro Gly Xaa Lys
 35 40 45

Xaa Leu Lys Gly Asp Gln Gly Glu Pro Gly Pro Ser Gly Asn Pro Gly
 50 55 60

Lys Val Gly Tyr Pro Gly Pro Ser Gly Pro Leu Gly Ala Arg Gly Ile
 65 70 75 80

Pro Gly Ile Lys Gly Thr Lys Gly Ser Pro Gly Asn Ile Lys Asp Gln
 85 90 95

Pro Arg Pro Ala Phe Ser Ala Ile Arg Arg Asn Pro Pro Met Gly Gly
 100 105 110
 Asn Val Val Ile Phe Asp Thr Val Ile Thr Asn Gln Glu Glu Pro Tyr
 115 120 125
 Gln Asn His Ser Gly Arg Phe Val Cys Thr Val Pro Gly Tyr Tyr Tyr
 130 135 140
 Phe Thr Phe Gln Val Leu Ser Gln Trp Glu Ile Cys Leu Ser Ile Val
 145 150 155 160
 Ser Ser Ser Arg Gly Gln Val Arg Arg Ser Leu Gly Phe Cys Asp Thr
 165 170 175
 Thr Asn Lys Gly Leu Phe Gln Val Val Ser Gly Gly Met Val Leu Gln
 180 185 190
 Leu Gln Gln Gly Asp Gln Val Trp Val Glu Lys Asp Pro Lys Lys Gly
 195 200 205
 His Ile Tyr Gln Gly Ser Glu Ala Asp Ser Val Phe Ser Gly Phe Leu
 210 215 220
 Ile Phe Pro Ser Ala
 225

<210> 2208

<211> 207

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (75)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (77)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (112)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2208

Met Asp Val Gly Pro Ser Ser Leu Pro His Leu Gly Leu Lys Leu Leu
 1 5 10 15

Leu Leu Leu Leu Leu Pro Leu Arg Gly Gln Ala Asn Thr Gly Cys
 20 25 30

Tyr Gly Ile Pro Gly Met Pro Gly Leu Pro Gly Ala Pro Gly Lys Asp
 35 40 45

Gly Tyr Asp Gly Leu Pro Gly Pro Lys Gly Glu Pro Gly Ile Pro Ala
 50 55 60
 Ile Pro Gly Ile Arg Gly Pro Lys Gly Gln Xaa Gly Xaa Ala Glu Ile
 65 70 75 80
 Pro Val Ser Val His Gly His Ser Ala Asp Pro Pro Ala Pro Cys Thr
 85 90 95
 Gln Gln Pro Asp Gln Ile Gln Arg Gly Pro His Gln Pro Ala Glu Xaa
 100 105 110
 Tyr Asp Thr Ser Thr Gly Lys Phe Thr Cys Lys Val Pro Gly Leu Tyr
 115 120 125
 Tyr Phe Val Tyr His Ala Ser His Thr Ala Asn Leu Cys Val Leu Leu
 130 135 140
 Tyr Arg Ser Gly Val Lys Val Val Thr Phe Cys Gly His Thr Ser Lys
 145 150 155 160
 Thr Asn Gln Val Asn Ser Gly Gly Val Leu Leu Arg Leu Gln Val Gly
 165 170 175
 Glu Glu Val Trp Leu Ala Val Asn Asp Tyr Tyr Asp Met Val Gly Ile
 180 185 190
 Gln Gly Ser Asp Ser Val Phe Ser Gly Phe Leu Leu Phe Pro Asp
 195 200 205

<210> 2209

<211> 235

<212> PRT

<213> Homo sapiens

<400> 2209

Met Asp Met Arg Val Pro Ala Gln Leu Leu Gly Leu Leu Leu Leu Trp
 1 5 10 15
 Leu Arg Gly Ala Arg Cys Asp Met Gln Met Thr Gln Ser Pro Ser Ser
 20 25 30
 Leu Ser Ala Ser Val Gly Asp Arg Val Thr Ile Thr Cys Arg Thr Ser
 35 40 45
 Gln Ser Ile Gly Lys Phe Leu Asn Trp Tyr Gln Gln Lys Pro Gly Gln
 50 55 60
 Ala Pro Lys Leu Leu Ile Ser Gly Ala Ser Ile Leu Gln Thr Gly Val
 65 70 75 80
 Pro Ser Arg Phe Ser Gly Ser Gly Ser Ala Thr Tyr Phe Thr Leu Thr
 85 90 95
 Ile Asn Asp Leu His Pro Glu Asp Ser Ala Thr Tyr Tyr Cys Gln Gln
 100 105 110
 Asp Tyr Thr Thr Pro Leu Phe Gly Gln Gly Thr Lys Val Glu Ile Lys

1470

115	120	125
Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu		
130	135	140
Gln Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe		
145	150	155
Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln		
165	170	175
Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser		
180	185	190
Thr Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu		
195	200	205
Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser		
210	215	220
Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys		
225	230	235

<210> 2210

<211> 234

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (120)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2210

Met Arg Val Pro Ala Gln Leu Leu Gly Leu Leu Leu Leu Trp Leu Ser		
1	5	10
Gly Ala Arg Cys Asp Ile Gln Leu Thr Gln Ser Pro Ser Ser Leu Ser		
20	25	30
Ala Ser Leu Gly Asp Ser Val Thr Ile Thr Cys Gln Ala Ser Gln Asp		
35	40	45
Ile Ala Asn Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Pro Pro		
50	55	60
Lys Leu Val Ile Phe Asp Gly Ser Ile Leu His Thr Gly Val Pro Ser		
65	70	75
Arg Phe Ser Gly Gly Gly Ser Gly Thr His Phe Thr Phe Thr Ile Asn		
85	90	95
Asn Leu Gln Pro Asp Asp Val Ala Thr Tyr Ser Cys Gln Gln Tyr Asn		
100	105	110
Thr Phe Pro Leu Thr Phe Gly Xaa Gly Thr Lys Val Glu Ile Lys Arg		
115	120	125

Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln
 130 135 140
 Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr
 145 150 155 160
 Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser
 165 170 175
 Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr
 180 185 190
 Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys
 195 200 205
 His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro
 210 215 220
 Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
 225 230

<210> 2211
 <211> 206
 <212> PRT
 <213> Homo sapiens

<400> 2211
 Met Asp Val Gly Pro Ser Ser Leu Pro His Leu Gly Leu Lys Leu Leu
 1 5 10 15
 Leu Leu Leu Leu Leu Leu Pro Leu Arg Gly Gln Ala Asn Thr Gly Cys
 20 25 30
 Tyr Gly Ile Pro Gly Met Pro Gly Leu Pro Gly Ala Pro Gly Lys Asp
 35 40 45
 Gly Tyr Asp Gly Leu Pro Gly Pro Lys Gly Glu Pro Gly Ile Pro Ala
 50 55 60
 Ile Pro Gly Ile Arg Gly Pro Lys Gly Arg Tyr Lys Gln Lys Phe Gln
 65 70 75 80
 Ser Val Phe Thr Val Thr Arg Gln Thr His Gln Pro Pro Ala Pro Asn
 85 90 95
 Ser Leu Ile Arg Phe Asn Ala Val Leu Thr Asn Pro Gln Gly Asp Tyr
 100 105 110
 Asp Thr Ser Thr Gly Lys Phe Thr Cys Lys Val Pro Gly Leu Tyr Tyr
 115 120 125
 Phe Val Tyr His Ala Ser His Thr Ala Asn Leu Cys Val Leu Leu Tyr
 130 135 140
 Arg Ser Gly Val Lys Val Val Thr Phe Cys Gly His Thr Ser Lys Thr
 145 150 155 160
 Asn Gln Val Asn Ser Gly Gly Val Leu Leu Arg Leu Gln Val Gly Glu
 1472

	165		170		175
Glu Val Trp	Leu Ala Val	Asn Asp Tyr Tyr Asp Met Val	Gly Ile Gln		
	180	185	190		
Gly Ser Asp	Ser Val Phe Ser	Gly Phe Leu Leu Phe Pro	Asp		
	195	200	205		
<210> 2212					
<211> 208					
<212> PRT					
<213> Homo sapiens					
<400> 2212					
Met Asp Val	Gly Pro Ser	Ser Leu Pro	His Leu Gly	Leu Lys Leu	Leu
1	5	10	15		
Leu Leu Leu	Leu Leu Leu	Pro Leu Arg	Gly Gln Ala	Asn Thr Gly	Cys
	20	25	30		
Tyr Gly Ile	Pro Gly Met	Pro Gly Leu	Pro Gly Ala	Pro Gly Lys	Asp
	35	40	45		
Gly Tyr Asp	Gly Leu Pro	Gly Pro Lys	Gly Glu Pro	Gly Ile Pro	Ala
	50	55	60		
Ile Pro Gly	Ile Arg Gly	Pro Lys Gly	Gln Lys Gly	Glu Pro Gly	Leu
	65	70	75		80
Pro Gly His	Pro Gly Lys	Asn Gly Pro	Met Gly Pro	Pro Gly Met	Pro
	85	90	95		
Gly Val Pro	Gly Pro Met	Gly Ile Pro	Gly Glu Pro	Gly Glu Glu	Gly
	100	105	110		
Arg Tyr Lys	Gln Lys Phe	Gln Ser Val	Phe Thr Val	Thr Arg Gln	Thr
	115	120	125		
His Gln Pro	Pro Ala Pro	Asn Ser Leu	Ile Arg Phe	Asn Ala Val	Leu
	130	135	140		
Thr Asn Pro	Gln Glu Ile	Met Thr Arg	Ala Leu Ala	Ser Ser Pro	Ala
	145	150	155		160
Lys Ser Pro	Ala Ser Thr	Thr Leu Ser	Thr Thr Arg	Arg Ile Gln	Pro
	165	170	175		
Thr Cys Ala	Cys Cys Cys	Thr Ala Ala	Ala Ser Lys	Trp Ser Pro	Ser
	180	185	190		
Val Ala Thr	Arg Pro Lys	Pro Ile Arg	Ser Thr Arg	Ala Val Cys	Cys
	195	200	205		

<210> 2213
 <211> 263
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (27)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (112)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 2213
 Met Cys Leu Leu Gly Gly Leu Ser Ala Pro Pro Leu Leu Leu Leu Pro
 1 5 10 15
 Leu Leu Pro Leu Leu Leu Cys Pro Pro Thr Xaa Gln Gly Asp Cys Ser
 20 25 30
 Phe Pro Pro Glu Leu Pro Asn Ala Ile Gln Ser Val Gly Asp Gln Gln
 35 40 45
 Ser Phe Pro Glu Lys Phe Thr Val Thr Tyr Lys Cys Lys Glu Gly Phe
 50 55 60
 Val Lys Val Pro Gly Lys Ala Asp Ser Val Val Cys Leu Asn Asn Lys
 65 70 75 80
 Trp Ser Glu Val Ala Glu Phe Cys Asn Arg Ser Cys Asp Val Pro Thr
 85 90 95
 Arg Leu Gln Phe Ala Ser Leu Lys Lys Ser Phe Thr Lys Gln Asn Xaa
 100 105 110
 Phe Pro Val Gly Ser Val Val Glu Tyr Glu Cys Arg Pro Gly Tyr Gln
 115 120 125
 Arg Asp His Leu Leu Ser Gly Lys Leu Thr Cys Leu Leu Asn Phe Thr
 130 135 140
 Trp Ser Lys Pro Asp Glu Phe Cys Lys Arg Lys Ser Cys Pro Asn Pro
 145 150 155 160
 Gly Asp Leu Arg His Gly His Val Asn Ile Pro Thr Asp Ile Leu Tyr
 165 170 175
 Ala Ala Val Ile His Phe Ser Cys Asn Lys Gly Tyr Arg Leu Val Gly
 180 185 190
 Ala Ala Ser Ser Tyr Cys Ser Ile Val Asn Asp Asp Val Gly Trp Ser
 195 200 205
 Asp Pro Leu Pro Glu Cys Gln Glu Ile Phe Cys Pro Glu Pro Pro Lys
 210 215 220
 Ile Ser Asn Gly Val Ile Leu Asp Gln Gln Asn Thr Tyr Val Tyr Gln
 225 230 235 240

Gln Ala Val Lys Tyr Glu Cys Ile Lys Gly Phe Thr Leu Ile Gly Glu
 245 250 255

Asn Ser Asp Leu Leu Tyr Cys
 260

<210> 2214

<211> 55

<212> PRT

<213> Homo sapiens

<400> 2214

Met Cys Leu Leu Gly Gly Leu Ser Ala Pro Pro Leu Leu Leu Leu Pro
 1 5 10 15

Leu Leu Pro Leu Leu Leu Cys Pro Pro Thr Gly Arg Val Thr Ala Ala
 20 25 30

Phe Pro Gln Ser Tyr Leu Met Pro Tyr Lys Val Trp Val Thr Asn Arg
 35 40 45

Val Phe Leu Lys Asn Ser Gln
 50 55

<210> 2215

<211> 350

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2215

Met Ala Xaa Xaa Val Val Leu Leu Ala Leu Val Ala Gly Val Leu Gly
 1 5 10 15

Asn Glu Phe Ser Ile Leu Lys Ser Pro Gly Ser Val Val Phe Arg Asn
 20 25 30

Gly Asn Trp Pro Ile Pro Gly Glu Arg Ile Pro Asp Val Ala Ala Leu
 35 40 45

Ser Met Gly Phe Ser Val Lys Glu Asp Leu Ser Trp Pro Gly Leu Ala
 50 55 60

Val Gly Asn Leu Phe His Arg Pro Arg Ala Thr Val Met Val Met Val
 65 70 75 80

Lys Gly Val Asn Lys Leu Ala Leu Pro Pro Gly Ser Val Ile Ser Tyr
 85 90 95
 Pro Leu Glu Asn Ala Val Pro Phe Ser Leu Asp Ser Val Ala Asn Ser
 100 105 110
 Ile His Ser Leu Phe Ser Glu Glu Thr Pro Val Val Leu Gln Leu Ala
 115 120 125
 Pro Ser Glu Glu Arg Val Tyr Met Val Gly Lys Ala Asn Ser Val Phe
 130 135 140
 Glu Asp Leu Ser Val Thr Leu Arg Gln Leu Arg Asn Arg Leu Phe Gln
 145 150 155 160
 Glu Asn Ser Val Leu Ser Ser Leu Pro Leu Asn Ser Leu Ser Arg Asn
 165 170 175
 Asn Glu Val Asp Leu Leu Phe Leu Ser Glu Leu Gln Val Leu His Asp
 180 185 190
 Ile Ser Ser Leu Leu Ser Arg His Lys His Leu Ala Lys Asp His Ser
 195 200 205
 Pro Asp Leu Tyr Ser Leu Glu Leu Ala Gly Leu Asp Glu Ile Gly Lys
 210 215 220
 Arg Tyr Gly Glu Asp Ser Glu Gln Phe Arg Asp Ala Ser Lys Ile Leu
 225 230 235 240
 Val Asp Ala Leu Gln Lys Phe Ala Asp Asp Met Tyr Ser Leu Tyr Gly
 245 250 255
 Gly Asn Ala Val Val Glu Leu Val Thr Val Lys Ser Phe Asp Thr Ser
 260 265 270
 Leu Ile Arg Lys Thr Arg Thr Ile Leu Glu Ala Lys Gln Ala Lys Asn
 275 280 285
 Pro Ala Ser Pro Tyr Asn Leu Ala Tyr Lys Tyr Asn Phe Glu Tyr Ser
 290 295 300
 Val Val Phe Asn Met Val Leu Trp Ile Met Ile Ala Leu Ala Leu Ala
 305 310 315 320
 Val Ile Ile Thr Ser Tyr Asn Ile Trp Asn Met Asp Pro Gly Tyr Asp
 325 330 335
 Ser Ile Ile Tyr Arg Met Thr Asn Gln Lys Ile Arg Met Asp
 340 345 350

<210> 2216

<211> 350

<212> PRT

<213> Homo sapiens

<400> 2216

Met Ala Val Phe Val Val Leu Leu Ala Leu Val Ala Gly Val Leu Gly

1	5	10	15
Asn Glu Phe Ser Ile Leu Lys Ser Pro Gly Ser Val Val Phe Arg Asn	20	25	30
Gly Asn Trp Pro Ile Pro Gly Glu Arg Ile Pro Asp Val Ala Ala Leu	35	40	45
Ser Met Gly Phe Ser Val Lys Glu Asp Leu Ser Trp Pro Gly Leu Ala	50	55	60
Val Gly Asn Leu Phe His Arg Pro Arg Ala Thr Val Met Val Met Val	65	70	75
Lys Gly Val Asn Lys Leu Ala Leu Pro Pro Gly Ser Val Ile Ser Tyr	85	90	95
Pro Leu Glu Asn Ala Val Pro Phe Ser Leu Asp Ser Val Ala Asn Ser	100	105	110
Ile His Ser Leu Phe Ser Glu Glu Thr Pro Val Val Leu Gln Leu Ala	115	120	125
Pro Ser Glu Glu Arg Val Tyr Met Val Gly Lys Ala Asn Ser Val Phe	130	135	140
Glu Asp Leu Ser Val Thr Leu Arg Gln Leu Arg Asn Arg Leu Phe Gln	145	150	155
Glu Asn Ser Val Leu Ser Ser Leu Pro Leu Asn Ser Leu Ser Arg Asn	165	170	175
Asn Glu Val Asp Leu Leu Phe Leu Ser Glu Leu Gln Val Leu His Asp	180	185	190
Ile Ser Ser Leu Leu Ser Arg His Lys His Leu Ala Lys Asp His Ser	195	200	205
Pro Asp Leu Tyr Ser Leu Glu Leu Ala Gly Leu Asp Glu Ile Gly Lys	210	215	220
Arg Tyr Gly Glu Asp Ser Glu Gln Phe Arg Asp Ala Ser Lys Ile Leu	225	230	235
Val Asp Ala Leu Gln Lys Phe Ala Asp Asp Met Tyr Ser Leu Tyr Gly	245	250	255
Gly Asn Ala Val Val Glu Leu Val Thr Val Lys Ser Phe Asp Thr Ser	260	265	270
Leu Ile Arg Lys Thr Arg Thr Ile Leu Glu Ala Lys Gln Ala Lys Asn	275	280	285
Pro Ala Ser Pro Tyr Asn Leu Ala Tyr Lys Tyr Asn Phe Glu Tyr Ser	290	295	300
Val Val Phe Asn Met Val Leu Trp Ile Met Ile Ala Leu Ala Leu Ala	305	310	315
Val Ile Ile Thr Ser Tyr Asn Ile Trp Asn Met Asp Pro Gly Tyr Asp			

325

330

335

Ser Ile Ile Tyr Arg Met Thr Asn Gln Lys Ile Arg Met Asp
 340 345 350

<210> 2217

<211> 167

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (61)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (79)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2217

Met Cys Ser Leu Phe His Ala Phe Ile Phe Ala Gln Leu Trp Thr Val
 1 5 10 15

Tyr Cys Glu Gln Ser Ala Val Ala Thr Asn Leu Gln Asn Gln Asn Glu
 20 25 30

Phe Ser Phe Thr Ala Ile Leu Thr Ala Leu Glu Phe Trp Ser Arg Val
 35 40 45

Thr Pro Ser Ile Leu Gln Leu Met Ala His Asn Lys Xaa Met Val Glu
 50 55 60

Met Val Cys Leu His Val Ile Ser Leu Met Glu Ala Leu Gln Xaa Cys
 65 70 75 80

Asn Ser Thr Ile Phe Val Lys Leu Ile Pro Met Trp Leu Pro Met Ile
 85 90 95

Gln Ser Asn Ile Lys His Leu Ser Ala Gly Leu Gln Leu Arg Leu Gln
 100 105 110

Ala Ile Gln Asn His Val Asn His His Ser Leu Arg Thr Leu Pro Gly
 115 120 125

Ser Gly Gln Ser Ser Ala Gly Leu Ala Ala Leu Arg Lys Trp Leu Gln
 130 135 140

Cys Thr Gln Phe Lys Met Ala Gln Val Glu Ile Gln Ser Ser Glu Ala
 145 150 155 160

Ala Ser Gln Phe Tyr Pro Leu
 165

<210> 2218

<211> 110

<212> PRT

<213> Homo sapiens

<400> 2218

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Met Glu Phe Pro Gly Ala Asp Gly Cys Asn Gln Val Asp Ala Glu Tyr
 1             5             10             15

Leu Lys Val Gly Ser Glu Gly His Phe Arg Val Pro Ala Leu Gly Tyr
             20             25             30

Leu Asp Val Arg Ile Val Asp Thr Asp Tyr Ser Ser Phe Ala Val Leu
             35             40             45

Tyr Ile Tyr Lys Glu Leu Glu Gly Ala Leu Ser Thr Met Val Gln Leu
             50             55             60

Tyr Ser Arg Thr Gln Asp Val Ser Pro Gln Ala Leu Lys Ala Phe Gln
             65             70             75             80

Asp Phe Tyr Pro Thr Leu Gly Leu Pro Glu Asp Met Met Val Met Leu
             85             90             95

Pro Gln Ser Asp Ala Cys Asn Pro Glu Ser Lys Glu Ala Pro
             100             105             110

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<210> 2219

<211> 115

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (101)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (106)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2219

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Ile Ser Leu Leu Trp Asn Leu Trp Gln Ser Val Lys Ile Gly Cys Gly
 1             5             10             15

Glu Lys Leu Tyr Pro Gly His Thr Lys Asp Ser Arg Asn His Leu Gly
             20             25             30

Gln Asn Leu Ser Phe Leu His Phe Ile Tyr Leu Phe Pro Pro Pro His
             35             40             45

Ser Thr His Thr Leu Pro Thr Ser Ser Thr Ser Thr Phe Lys His Lys
             50             55             60

Asp Val Arg Val Phe Ser Leu Ser Val Ser Trp Arg Thr Gly Cys Trp
             65             70             75             80

Glu Arg Lys Gly Gln Met Ser Lys Gly Gly Cys Arg Ala Gly Gln Ala
             85             90             95

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Asp Ser Gly Gly Xaa Leu Glu Glu Leu Xaa Pro Ser Gln Thr Trp Val
 100 105 110

Ser Lys Thr
 115

<210> 2220

<211> 262

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (254)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2220

Met Glu Cys Cys Arg Arg Ala Thr Pro Gly Thr Leu Leu Leu Phe Leu
 1 5 10 15

Ala Phe Leu Leu Leu Ser Ser Arg Thr Ala Arg Ser Glu Glu Asp Arg
 20 25 30

Asp Gly Leu Trp Asp Ala Trp Gly Pro Trp Ser Glu Cys Ser Arg Thr
 35 40 45

Cys Gly Gly Gly Ala Ser Tyr Ser Leu Arg Arg Cys Leu Ser Ser Lys
 50 55 60

Ser Cys Glu Gly Arg Asn Ile Arg Tyr Arg Thr Cys Ser Asn Val Asp
 65 70 75 80

Cys Pro Pro Glu Ala Gly Asp Phe Arg Ala Gln Gln Cys Ser Ala His
 85 90 95

Asn Asp Val Lys His His Gly Gln Phe Tyr Glu Trp Leu Pro Val Ser
 100 105 110

Asn Asp Pro Asp Asn Pro Cys Ser Leu Lys Cys Gln Ala Lys Gly Thr
 115 120 125

Thr Leu Val Val Glu Leu Ala Pro Lys Val Leu Asp Gly Thr Arg Cys
 130 135 140

Tyr Thr Glu Ser Leu Asp Met Cys Ile Ser Gly Leu Cys Gln Ile Val
 145 150 155 160

Gly Cys Asp His Gln Leu Gly Ser Thr Val Lys Glu Asp Asn Cys Gly
 165 170 175

Val Cys Asn Gly Asp Gly Ser Thr Cys Arg Leu Val Arg Gly Gln Tyr
 180 185 190

Lys Ser Gln Leu Ser Ala Thr Lys Ser Asp Asp Thr Val Val Ala Ile
 195 200 205

Pro Tyr Gly Ser Arg His Ile Arg Leu Val Leu Lys Gly Pro Asp His

1480

210	215	220
Leu Tyr Leu Glu Thr Lys Thr Leu Gln Gly Thr Lys Gly Glu Asn Ser		
225	230	235 240
Leu Ser Ser Thr Gly Thr Phe Leu Val Asp Asn Ser Ser Xaa Thr Ser		
	245	250 255
Arg Asn Phe Gln Thr Lys		
260		

<210> 2221
 <211> 514
 <212> PRT
 <213> Homo sapiens

<400> 2221
 Glu Leu Cys Arg Gln Pro Lys Pro Ser Thr Val Gln Ala Cys Asn Arg
 1 5 10 15
 Phe Asn Cys Pro Pro Ala Trp Tyr Pro Ala Gln Trp Gln Pro Cys Ser
 20 25 30
 Arg Thr Cys Gly Gly Gly Val Gln Lys Arg Glu Val Leu Cys Lys Gln
 35 40 45
 Arg Met Ala Asp Gly Ser Phe Leu Glu Leu Pro Glu Thr Phe Cys Ser
 50 55 60
 Ala Ser Lys Pro Ala Cys Gln Gln Ala Cys Lys Lys Asp Asp Cys Pro
 65 70 75 80
 Ser Glu Trp Leu Leu Ser Asp Trp Thr Glu Cys Ser Thr Ser Cys Gly
 85 90 95
 Glu Gly Thr Gln Thr Arg Ser Ala Ile Cys Arg Lys Met Leu Lys Thr
 100 105 110
 Gly Leu Ser Thr Val Val Asn Ser Thr Leu Cys Pro Pro Leu Pro Phe
 115 120 125
 Ser Ser Ser Ile Arg Pro Cys Met Leu Ala Thr Cys Ala Arg Pro Gly
 130 135 140
 Arg Pro Ser Thr Lys His Ser Pro His Ile Ala Ala Ala Arg Lys Val
 145 150 155 160
 Tyr Ile Gln Thr Arg Arg Gln Arg Lys Leu His Phe Val Val Gly Gly
 165 170 175
 Phe Ala Tyr Leu Leu Pro Lys Thr Ala Val Val Leu Arg Cys Pro Ala
 180 185 190
 Arg Arg Val Arg Lys Pro Leu Ile Thr Trp Glu Lys Asp Gly Gln His
 195 200 205
 Leu Ile Ser Ser Thr His Val Thr Val Ala Pro Phe Gly Tyr Leu Lys
 210 215 220

Ile His Arg Leu Lys Pro Ser Asp Ala Gly Val Tyr Thr Cys Ser Ala
 225 230 235 240
 Gly Pro Ala Arg Glu His Phe Val Ile Lys Leu Ile Gly Gly Asn Arg
 245 250 255
 Lys Leu Val Ala Arg Pro Leu Ser Pro Arg Ser Glu Glu Glu Val Leu
 260 265 270
 Ala Gly Arg Lys Gly Gly Pro Lys Glu Ala Leu Gln Thr His Lys His
 275 280 285
 Gln Asn Gly Ile Phe Ser Asn Gly Ser Lys Ala Glu Lys Arg Gly Leu
 290 295 300
 Ala Ala Asn Pro Gly Ser Arg Tyr Asp Asp Leu Val Ser Arg Leu Leu
 305 310 315 320
 Glu Gln Gly Gly Trp Pro Gly Glu Leu Leu Ala Ser Trp Glu Ala Gln
 325 330 335
 Asp Ser Ala Glu Arg Asn Thr Thr Ser Glu Glu Asp Pro Gly Ala Glu
 340 345 350
 Gln Val Leu Leu His Leu Pro Phe Thr Met Val Thr Glu Gln Arg Arg
 355 360 365
 Leu Asp Asp Ile Leu Gly Asn Leu Ser Gln Gln Pro Glu Glu Leu Arg
 370 375 380
 Asp Leu Tyr Ser Lys His Leu Val Ala Gln Leu Ala Gln Glu Ile Phe
 385 390 395 400
 Arg Ser His Leu Glu His Gln Asp Thr Leu Leu Lys Pro Ser Glu Arg
 405 410 415
 Arg Thr Ser Pro Val Thr Leu Ser Pro His Lys His Val Ser Gly Phe
 420 425 430
 Ser Ser Ser Leu Arg Thr Ser Ser Thr Gly Asp Ala Gly Gly Gly Ser
 435 440 445
 Arg Arg Pro His Arg Lys Pro Thr Ile Leu Arg Lys Ile Ser Ala Ala
 450 455 460
 Gln Gln Leu Ser Ala Ser Glu Val Val Thr His Leu Gly Gln Thr Val
 465 470 475 480
 Ala Leu Ala Ser Gly Thr Leu Ser Val Phe Cys Thr Val Arg Pro Ser
 485 490 495
 Ala Thr Gln Gly Leu Pro Ser Ala Gly Pro Gly Met Glu Lys Lys Ser
 500 505 510
 Val Gln

<210> 2222

<211> 1745

<212> PRT

<213> Homo sapiens

<400> 2222

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Met Glu Cys Cys Arg Arg Ala Thr Pro Gly Thr Leu Leu Leu Phe Leu
  1              5              10              15

Ala Phe Leu Leu Leu Ser Ser Arg Thr Ala Arg Ser Glu Glu Asp Arg
      20              25              30

Asp Gly Leu Trp Asp Ala Trp Gly Pro Trp Ser Glu Cys Ser Arg Thr
      35              40              45

Cys Gly Gly Gly Ala Ser Tyr Ser Leu Arg Arg Cys Leu Ser Ser Lys
      50              55              60

Ser Cys Glu Gly Arg Asn Ile Arg Tyr Arg Thr Cys Ser Asn Val Asp
      65              70              75              80

Cys Pro Pro Glu Ala Gly Asp Phe Arg Ala Gln Gln Cys Ser Ala His
      85              90              95

Asn Asp Val Lys His His Gly Gln Phe Tyr Glu Trp Leu Pro Val Ser
      100             105             110

Asn Asp Pro Asp Asn Pro Cys Ser Leu Lys Cys Gln Ala Lys Gly Thr
      115             120             125

Thr Leu Val Val Glu Leu Ala Pro Lys Val Leu Asp Gly Thr Arg Cys
      130             135             140

Tyr Thr Glu Ser Leu Asp Met Cys Ile Ser Gly Leu Cys Gln Ile Val
      145             150             155             160

Gly Cys Asp His Gln Leu Gly Ser Thr Val Lys Glu Asp Asn Cys Gly
      165             170             175

Val Cys Asn Gly Asp Gly Ser Thr Cys Arg Leu Val Arg Gly Gln Tyr
      180             185             190

Lys Ser Gln Leu Ser Ala Thr Lys Ser Asp Asp Thr Val Val Ala Ile
      195             200             205

Pro Tyr Gly Ser Arg His Ile Arg Leu Val Leu Lys Gly Pro Asp His
      210             215             220

Leu Tyr Leu Glu Thr Lys Thr Leu Gln Gly Thr Lys Gly Glu Asn Ser
      225             230             235             240

Leu Ser Ser Thr Gly Thr Phe Leu Val Asp Asn Ser Ser Val Asp Phe
      245             250             255

Gln Lys Phe Pro Asp Lys Glu Ile Leu Arg Met Ala Gly Pro Leu Thr
      260             265             270

Ala Asp Phe Ile Val Lys Ile Arg Asn Ser Gly Ser Ala Asp Ser Thr
      275             280             285

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Val Gln Phe Ile Phe Tyr Gln Pro Ile Ile His Arg Trp Arg Glu Thr
 290 295 300
 Asp Phe Phe Pro Cys Ser Ala Thr Cys Gly Gly Gly Tyr Gln Leu Thr
 305 310 315 320
 Ser Ala Glu Cys Tyr Asp Leu Arg Ser Asn Arg Val Val Ala Asp Gln
 325 330 335
 Tyr Cys His Tyr Tyr Pro Glu Asn Ile Lys Pro Lys Pro Lys Leu Gln
 340 345 350
 Glu Cys Asn Leu Asp Pro Cys Pro Ala Arg Trp Glu Ala Thr Pro Trp
 355 360 365
 Thr Ala Cys Ser Ser Ser Cys Gly Gly Gly Ile Gln Ser Arg Ala Val
 370 375 380
 Ser Cys Val Glu Glu Asp Ile Gln Gly His Val Thr Ser Val Glu Glu
 385 390 395 400
 Trp Lys Cys Met Tyr Thr Pro Lys Met Pro Ile Ala Gln Pro Cys Asn
 405 410 415
 Ile Phe Asp Cys Pro Lys Trp Leu Ala Gln Glu Trp Ser Pro Cys Thr
 420 425 430
 Val Thr Cys Gly Gln Gly Leu Arg Tyr Arg Val Val Leu Cys Ile Asp
 435 440 445
 His Arg Gly Met His Thr Gly Gly Cys Ser Pro Lys Thr Lys Pro His
 450 455 460
 Ile Lys Glu Glu Cys Ile Val Pro Thr Pro Cys Tyr Lys Pro Lys Glu
 465 470 475 480
 Lys Leu Pro Val Glu Ala Lys Leu Pro Trp Phe Lys Gln Ala Gln Glu
 485 490 495
 Leu Glu Glu Gly Ala Ala Val Ser Glu Glu Pro Ser Phe Ile Pro Lys
 500 505 510
 Ala Trp Ser Ala Cys Thr Val Thr Cys Gly Val Gly Thr Gln Val Arg
 515 520 525
 Ile Val Arg Cys Gln Val Leu Leu Ser Phe Ser Gln Ser Val Ala Asp
 530 535 540
 Leu Pro Ile Asp Glu Cys Glu Gly Pro Lys Pro Ala Ser Gln Arg Ala
 545 550 555 560
 Cys Tyr Ala Gly Pro Cys Ser Gly Glu Ile Pro Glu Phe Asn Pro Asp
 565 570 575
 Glu Thr Asp Gly Leu Phe Gly Gly Leu Gln Asp Phe Asp Glu Leu Tyr
 580 585 590
 Asp Trp Glu Tyr Glu Gly Phe Thr Lys Cys Ser Glu Ser Cys Gly Gly
 595 600 605

Gly Val Gln Glu Ala Val Val Ser Cys Leu Asn Lys Gln Thr Arg Glu
 610 615 620
 Pro Ala Glu Glu Asn Leu Cys Val Thr Ser Arg Arg Pro Pro Gln Leu
 625 630 635 640
 Leu Lys Ser Cys Asn Leu Asp Pro Cys Pro Ala Arg Trp Glu Ile Gly
 645 650 655
 Lys Trp Ser Pro Cys Ser Leu Thr Cys Gly Val Gly Leu Gln Thr Arg
 660 665 670
 Asp Val Phe Cys Ser His Leu Leu Ser Arg Glu Met Asn Glu Thr Val
 675 680 685
 Ile Leu Ala Asp Glu Leu Cys Arg Gln Pro Lys Pro Ser Thr Val Gln
 690 695 700
 Ala Cys Asn Arg Phe Asn Cys Pro Pro Ala Trp Tyr Pro Ala Gln Trp
 705 710 715 720
 Gln Pro Cys Ser Arg Thr Cys Gly Gly Gly Val Gln Lys Arg Glu Val
 725 730 735
 Leu Cys Lys Gln Arg Met Ala Asp Gly Ser Phe Leu Glu Leu Pro Glu
 740 745 750
 Thr Phe Cys Ser Ala Ser Lys Pro Ala Cys Gln Gln Ala Cys Lys Lys
 755 760 765
 Asp Asp Cys Pro Ser Glu Trp Leu Leu Ser Asp Trp Thr Glu Cys Ser
 770 775 780
 Thr Ser Cys Gly Glu Gly Thr Gln Thr Arg Ser Ala Ile Cys Arg Lys
 785 790 795 800
 Met Leu Lys Thr Gly Leu Ser Thr Val Val Asn Ser Thr Leu Cys Pro
 805 810 815
 Pro Leu Pro Phe Ser Ser Ser Ile Arg Pro Cys Met Leu Ala Thr Cys
 820 825 830
 Ala Arg Pro Gly Arg Pro Ser Thr Lys His Ser Pro His Ile Ala Ala
 835 840 845
 Ala Arg Lys Val Tyr Ile Gln Thr Arg Arg Gln Arg Lys Leu His Phe
 850 855 860
 Val Val Gly Gly Phe Ala Tyr Leu Leu Pro Lys Thr Ala Val Val Leu
 865 870 875 880
 Arg Cys Pro Ala Arg Arg Val Arg Lys Pro Leu Ile Thr Trp Glu Lys
 885 890 895
 Asp Gly Gln His Leu Ile Ser Ser Thr His Val Thr Val Ala Pro Phe
 900 905 910
 Gly Tyr Leu Lys Ile His Arg Leu Lys Pro Ser Asp Ala Gly Val Tyr
 915 920 925

Thr Cys Ser Ala Gly Pro Ala Arg Glu His Phe Val Ile Lys Leu Ile
 930 935 940
 Gly Gly Asn Arg Lys Leu Val Ala Arg Pro Leu Ser Pro Arg Ser Glu
 945 950 955 960
 Glu Glu Val Leu Ala Gly Arg Lys Gly Gly Pro Lys Glu Ala Leu Gln
 965 970 975
 Thr His Lys His Gln Asn Gly Ile Phe Ser Asn Gly Ser Lys Ala Glu
 980 985 990
 Lys Arg Gly Leu Ala Ala Asn Pro Gly Ser Arg Tyr Asp Asp Leu Val
 995 1000 1005
 Ser Arg Leu Leu Glu Gln Gly Gly Trp Pro Gly Glu Leu Leu Ala Ser
 1010 1015 1020
 Trp Glu Ala Gln Asp Ser Ala Glu Arg Asn Thr Thr Ser Glu Glu Asp
 1025 1030 1035 1040
 Pro Gly Ala Glu Gln Val Leu Leu His Leu Pro Phe Thr Met Val Thr
 1045 1050 1055
 Glu Gln Arg Arg Leu Asp Asp Ile Leu Gly Asn Leu Ser Gln Gln Pro
 1060 1065 1070
 Glu Glu Leu Arg Asp Leu Tyr Ser Lys His Leu Val Ala Gln Leu Ala
 1075 1080 1085
 Gln Glu Ile Phe Arg Ser His Leu Glu His Gln Asp Thr Leu Leu Lys
 1090 1095 1100
 Pro Ser Glu Arg Arg Thr Ser Pro Val Thr Leu Ser Pro His Lys His
 1105 1110 1115 1120
 Val Ser Gly Phe Ser Ser Ser Leu Arg Thr Ser Ser Thr Gly Asp Ala
 1125 1130 1135
 Gly Gly Gly Ser Arg Arg Pro His Arg Lys Pro Thr Ile Leu Arg Lys
 1140 1145 1150
 Ile Ser Ala Ala Gln Gln Leu Ser Ala Ser Glu Val Val Thr His Leu
 1155 1160 1165
 Gly Gln Thr Val Ala Leu Ala Ser Gly Thr Leu Ser Val Leu Leu His
 1170 1175 1180
 Cys Glu Ala Ile Gly His Pro Arg Pro Thr Ile Ser Trp Ala Arg Asn
 1185 1190 1195 1200
 Gly Glu Glu Val Gln Phe Ser Asp Arg Ile Leu Leu Gln Pro Asp Asp
 1205 1210 1215
 Ser Leu Gln Ile Leu Ala Pro Val Glu Ala Asp Val Gly Phe Tyr Thr
 1220 1225 1230
 Cys Asn Ala Thr Asn Ala Leu Gly Tyr Asp Ser Val Ser Ile Ala Val
 1235 1240 1245

Thr Leu Ala Gly Lys Pro Leu Val Lys Thr Ser Arg Met Thr Val Ile
 1250 1255 1260
 Asn Thr Glu Lys Pro Ala Val Thr Val Asp Ile Gly Ser Thr Ile Lys
 1265 1270 1275 1280
 Thr Val Gln Gly Val Asn Val Thr Ile Asn Cys Gln Val Ala Gly Val
 1285 1290 1295
 Pro Glu Ala Glu Val Thr Trp Phe Arg Asn Lys Ser Lys Leu Gly Ser
 1300 1305 1310
 Pro His His Leu His Glu Gly Ser Leu Leu Leu Thr Asn Val Ser Ser
 1315 1320 1325
 Ser Asp Gln Gly Leu Tyr Ser Cys Arg Ala Ala Asn Leu His Gly Glu
 1330 1335 1340
 Leu Thr Glu Ser Thr Gln Leu Leu Ile Leu Asp Pro Pro Gln Val Pro
 1345 1350 1355 1360
 Thr Gln Leu Glu Asp Ile Arg Ala Leu Leu Ala Ala Thr Gly Pro Asn
 1365 1370 1375
 Leu Pro Ser Val Leu Thr Ser Pro Leu Gly Thr Gln Leu Val Leu Asp
 1380 1385 1390
 Pro Gly Asn Ser Ala Leu Leu Gly Cys Pro Ile Lys Gly His Pro Val
 1395 1400 1405
 Pro Asn Ile Thr Trp Phe His Gly Gly Gln Pro Ile Val Thr Ala Thr
 1410 1415 1420
 Gly Leu Thr His His Ile Leu Ala Ala Gly Gln Ile Leu Gln Val Ala
 1425 1430 1435 1440
 Asn Leu Ser Gly Gly Ser Gln Gly Glu Phe Ser Cys Leu Ala Gln Asn
 1445 1450 1455
 Glu Ala Gly Val Leu Met Gln Lys Ala Ser Leu Val Ile Gln Asp Tyr
 1460 1465 1470
 Trp Trp Ser Val Asp Arg Leu Ala Thr Cys Ser Ala Ser Cys Gly Asn
 1475 1480 1485
 Arg Gly Val Gln Gln Pro Arg Leu Arg Cys Leu Leu Asn Ser Thr Glu
 1490 1495 1500
 Val Asn Pro Ala His Cys Ala Gly Lys Val Arg Pro Ala Val Gln Pro
 1505 1510 1515 1520
 Ile Ala Cys Asn Arg Arg Asp Cys Pro Ser Arg Trp Met Val Thr Ser
 1525 1530 1535
 Trp Ser Ala Cys Thr Arg Ser Cys Gly Gly Gly Val Gln Thr Arg Arg
 1540 1545 1550
 Val Thr Cys Gln Lys Leu Lys Ala Ser Gly Ile Ser Thr Pro Val Ser
 1555 1560 1565

Asn Asp Met Cys Thr Gln Val Ala Lys Arg Pro Val Asp Thr Gln Ala
 1570 1575 1580
 Cys Asn Gln Gln Leu Cys Val Glu Trp Ala Phe Ser Ser Trp Gly Gln
 1585 1590 1595 1600
 Cys Asn Gly Pro Cys Ile Gly Pro His Leu Ala Val Gln His Arg Gln
 1605 1610 1615
 Val Phe Cys Gln Thr Arg Asp Gly Ile Thr Leu Pro Ser Glu Gln Cys
 1620 1625 1630
 Ser Ala Leu Pro Arg Pro Val Ser Thr Gln Asn Cys Trp Ser Glu Ala
 1635 1640 1645
 Cys Ser Val His Trp Arg Val Ser Leu Trp Thr Leu Cys Thr Ala Thr
 1650 1655 1660
 Cys Gly Asn Tyr Gly Phe Gln Ser Arg Arg Val Glu Cys Val His Ala
 1665 1670 1675 1680
 Arg Thr Asn Lys Ala Val Pro Glu His Leu Cys Ser Trp Gly Pro Arg
 1685 1690 1695
 Pro Ala Asn Trp Gln Arg Cys Asn Ile Thr Pro Cys Glu Asn Met Glu
 1700 1705 1710
 Cys Arg Asp Thr Thr Arg Tyr Cys Glu Lys Val Lys Gln Leu Lys Leu
 1715 1720 1725
 Cys Gln Leu Ser Gln Phe Lys Ser Arg Cys Cys Gly Thr Cys Gly Lys
 1730 1735 1740
 Ala
 1745

<210> 2223
 <211> 19
 <212> PRT
 <213> Homo sapiens

<400> 2223
 Glu Cys Cys Glu Thr Ala Ala Pro Pro Gly Pro His Arg Arg Pro Glu
 1 5 10 15
 Ser Gly Gln

<210> 2224
 <211> 363
 <212> PRT
 <213> Homo sapiens

<400> 2224
 Met Ala Ala Val Leu Thr Trp Ala Leu Ala Leu Leu Ser Ala Phe Ser
 1 5 10 15

Ala Thr Gln Ala Arg Lys Gly Phe Trp Asp Tyr Phe Ser Gln Thr Ser
 20 25 30
 Gly Asp Lys Gly Arg Val Glu Gln Ile His Gln Gln Lys Met Ala Arg
 35 40 45
 Glu Pro Ala Thr Leu Lys Asp Ser Leu Glu Gln Asp Leu Asn Asn Met
 50 55 60
 Asn Lys Phe Leu Glu Lys Leu Arg Pro Leu Ser Gly Ser Glu Ala Pro
 65 70 75 80
 Arg Leu Pro Gln Asp Pro Val Gly Met Arg Arg Gln Leu Gln Glu Glu
 85 90 95
 Leu Glu Glu Val Lys Ala Arg Leu Gln Pro Tyr Met Ala Glu Ala His
 100 105 110
 Glu Leu Val Gly Trp Asn Leu Glu Gly Leu Arg Gln Gln Leu Lys Pro
 115 120 125
 Tyr Thr Met Asp Leu Met Glu Gln Val Ala Leu Arg Val Gln Glu Leu
 130 135 140
 Gln Glu Gln Leu Arg Val Val Gly Glu Asp Thr Lys Ala Gln Leu Leu
 145 150 155 160
 Gly Gly Val Asp Glu Ala Trp Ala Leu Leu Gln Gly Leu Gln Ser Arg
 165 170 175
 Val Val His His Thr Gly Arg Phe Lys Glu Leu Phe His Pro Tyr Ala
 180 185 190
 Glu Ser Leu Val Ser Gly Ile Gly Arg His Val Gln Glu Leu His Arg
 195 200 205
 Ser Val Ala Pro His Ala Pro Ala Ser Pro Ala Arg Leu Ser Arg Cys
 210 215 220
 Val Gln Val Leu Ser Arg Lys Leu Thr Leu Lys Ala Lys Ala Leu His
 225 230 235 240
 Ala Arg Ile Gln Gln Asn Leu Asp Gln Leu Arg Glu Glu Leu Ile Arg
 245 250 255
 Ala Phe Ala Gly Thr Gly Thr Glu Glu Gly Ala Gly Pro Asp Pro Gln
 260 265 270
 Met Leu Ser Glu Glu Val Arg Gln Arg Leu Gln Ala Phe Arg Gln Asp
 275 280 285
 Thr Tyr Leu Gln Ile Ala Ala Phe Thr Arg Ala Ile Asp Gln Glu Thr
 290 295 300
 Glu Glu Val Gln Gln Gln Leu Ala Pro Pro Pro Pro Gly His Ser Ala
 305 310 315 320
 Phe Ala Pro Glu Phe Gln Gln Thr Asp Ser Gly Lys Val Leu Ser Lys
 325 330 335

Leu Gln Ala Arg Leu Asp Asp Leu Trp Glu Asp Ile Thr His Ser Leu
 340 345 350

His Asp Gln Gly His Ser His Leu Gly Asp Pro
 355 360

<210> 2225

<211> 183

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (86)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (146)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2225

Met Ala Val Gly Lys Phe Leu Leu Gly Ser Leu Leu Leu Leu Ser Leu
 1 5 10 15

Gln Leu Gly Gln Gly Trp Gly Pro Asp Ala Arg Gly Val Pro Val Ala
 20 25 30

Asp Gly Glu Phe Ser Ser Glu Gln Val Ala Lys Ala Gly Gly Thr Trp
 35 40 45

Leu Gly Lys Asp Phe Gln Gly Pro Ser Val Thr Ser Gln Leu Ser Pro
 50 55 60

Ala Leu Thr Leu Leu Thr Val Ser Ala Leu Pro Ser His Arg His Pro
 65 70 75 80

Pro Pro Pro Cys Pro Xaa Ala Pro Ser Pro Val Trp Ser Met Pro Ala
 85 90 95

Val Glu Pro Asp Pro Val Arg Gly Arg Ala Arg Pro Gly Leu Arg Leu
 100 105 110

Ile Gly Glu Val Ile Phe Arg Tyr Cys Ala Gly Ser Cys Pro Arg Gly
 115 120 125

Ala Arg Thr Gln His Gly Leu Ala Leu Ala Arg Leu Gln Gly Gln Gly
 130 135 140

Arg Xaa His Gly Gly Pro Cys Cys Arg Pro Thr Arg Tyr Thr Asp Val
 145 150 155 160

Ala Phe Leu Asp Asp Arg His Ala Gly Ser Gly Cys Pro Ser Ser Arg
 165 170 175

Arg Leu Cys Gly Cys Gly Gly
 180

<210> 2226
 <211> 252
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (86)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (116)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (135)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (146)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 2226
 Met Ala Val Gly Lys Phe Leu Leu Gly Ser Leu Leu Leu Leu Ser Leu
 1 5 10 15
 Gln Leu Gly Gln Gly Trp Gly Pro Asp Ala Arg Gly Val Pro Val Ala
 20 25 30
 Asp Gly Glu Phe Ser Ser Glu Gln Val Ala Lys Ala Gly Gly Thr Trp
 35 40 45
 Leu Gly Lys Asp Phe Gln Gly Pro Ser Val Thr Ser Gln Leu Ser Pro
 50 55 60
 Ala Leu Thr Leu Leu Thr Val Ser Ala Leu Pro Ser His Arg His Pro
 65 70 75 80
 Pro Pro Pro Cys Pro Xaa Ala Pro Ser Pro Val Trp Ser Met Pro Ala
 85 90 95
 Val Glu Pro Asp Pro Val Arg Gly Arg Ala Arg Pro Gly Leu Arg Leu
 100 105 110
 Ile Gly Glu Xaa His Leu Pro Leu Leu Arg Arg Gln Leu Pro Pro Trp
 115 120 125
 Cys Pro His Pro Ala Trp Xaa Gly Ala Gly Pro Ala Ala Gly Pro Gly
 130 135 140
 Pro Xaa Pro Arg Arg Ala Leu Leu Pro Ala His Ser Leu His Arg Arg
 145 150 155 160
 Gly Leu Pro Arg Arg Pro Pro Arg Trp Gln Arg Leu Pro Gln Leu Ser

165								170				175					
Ala	Ala	Leu	Arg	Leu	Trp	Trp	Leu	Arg	Val	Pro	Gly	Leu	Ala	Pro	Arg		
180								185				190					
Ser	Cys	Ser	Ala	Gly	Gly	Ala	Arg	Leu	Thr	Tyr	Leu	Leu	Glu	Thr	Trp		
195								200				205					
Met	Gln	Arg	Gln	Arg	Gly	Gly	Glu	Trp	Ala	Gly	Ala	Thr	Ser	Ser	Glu		
210								215				220					
Cys	Asn	Lys	Gly	His	His	Ser	Pro	Gly	Lys	Lys	Lys	Lys	Lys	Lys	Lys		
225								230				235				240	
Lys	Lys	Lys	Lys	Lys	Leu	Glu	Gly	Gly	Ser	Arg	Tyr						
245								250									

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<210> 2227
<211> 150
<212> PRT -
<213> Homo sapiens
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<400> 2227
Met Val Met Ile Leu Phe Val Ala Phe Ile Thr Cys Trp Glu Glu Val
  1              5              10              15

Thr Thr Leu Val Gln Ala Ile Arg Ile Thr Ser Tyr Met Asn Glu Thr
      20              25              30

Ile Leu Tyr Phe Pro Phe Ser Ser His Ser Ser Tyr Thr Val Arg Ser
      35              40              45

Lys Lys Ile Phe Leu Ser Lys Leu Ile Val Cys Phe Leu Ser Thr Trp
      50              55              60

Leu Pro Phe Val Leu Leu Gln Val Ile Ile Val Leu Leu Lys Val Gln
      65              70              75              80

Ile Pro Ala Tyr Ile Glu Met Asn Ile Pro Trp Leu Tyr Phe Val Asn
      85              90              95

Ser Phe Leu Ile Ala Thr Val Tyr Trp Phe Asn Cys His Lys Leu Asn
      100             105             110

Leu Lys Asp Ile Gly Leu Pro Leu Asp Pro Phe Val Asn Trp Lys Cys
      115             120             125

Cys Phe Ile Pro Leu Thr Ile Pro Asn Leu Glu Gln Ile Glu Lys Pro
      130             135             140

Ile Ser Ile Met Ile Cys
145             150

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<210> 2228
<211> 125
<212> PRT
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<213> Homo sapiens

<400> 2228

Met Ile Pro Phe Pro Ala Cys Leu Leu Leu Ala Leu Phe Pro Lys Val
 1 5 10 15

Gln Val Gly Arg Thr Thr Ser Ala Tyr Phe Ser Thr Ile Pro Ser Met
 20 25 30

Pro Ala Arg Ser Gln Ile Asn Leu Pro Val Glu Ser Gly Ser Ala Leu
 35 40 45

Leu Glu Pro Arg Gly Lys Gly Arg Val Glu Arg Val Cys Pro Val Ala
 50 55 60

Trp Ser Ser Met Val Ala Ser Cys Leu Pro Ser Pro Ser Ser Gly Gly
 65 70 75 80

Pro Glu Gly Ser Leu Gly Thr Val Pro Gln Ile Leu Thr Gln Gly Pro
 85 90 95

Ala Trp Gly Arg Asp Gly Cys Arg Gln Asn Ala Leu Tyr Arg Asp Phe
 100 105 110

Leu Leu Leu Gly Arg Cys Val Ser Pro Thr Ile Cys Leu
 115 120 125

<210> 2229

<211> 766

<212> PRT

<213> Homo sapiens

<400> 2229

Met Ile Trp Arg Ser Arg Ala Gly Ala Glu Leu Phe Ser Leu Met Ala
 1 5 10 15

Leu Trp Glu Trp Ile Ala Leu Ser Leu His Cys Trp Val Leu Ala Val
 20 25 30

Ala Ala Val Ser Asp Gln His Ala Thr Ser Pro Phe Asp Trp Leu Leu
 35 40 45

Ser Asp Lys Gly Pro Phe His Arg Ser Gln Glu Tyr Thr Asp Phe Val
 50 55 60

Asp Arg Ser Arg Gln Gly Phe Ser Thr Arg Tyr Lys Ile Tyr Arg Glu
 65 70 75 80

Phe Gly Arg Trp Lys Val Asn Asn Leu Ala Val Glu Arg Arg Asn Phe
 85 90 95

Leu Gly Ser Pro Leu Pro Leu Ala Pro Glu Phe Phe Arg Asn Ile Arg
 100 105 110

Leu Leu Gly Arg Arg Pro Thr Leu Gln Gln Ile Thr Glu Asn Leu Ile
 115 120 125

Lys Lys Tyr Gly Thr His Phe Leu Leu Ser Ala Thr Leu Gly Gly Glu

130	135	140
Glu Ser Leu Thr Ile Phe Val Asp Lys Arg Lys Leu Ser Lys Arg Ala		
145	150	155 160
Glu Gly Ser Asp Ser Thr Thr Asn Ser Ser Ser Val Thr Leu Glu Thr		
	165	170 175
Leu His Gln Leu Ala Ala Ser Tyr Phe Ile Asp Arg Asp Ser Thr Leu		
	180	185 190
Arg Arg Leu His His Ile Gln Ile Ala Ser Thr Ala Ile Lys Val Thr		
	195	200 205
Glu Thr Arg Thr Gly Pro Leu Gly Cys Ser Asn Tyr Asp Asn Leu Asp		
	210	215 220
Ser Val Ser Ser Val Leu Val Gln Ser Pro Glu Asn Lys Ile Gln Leu		
	225	230 235 240
Gln Gly Leu Gln Val Leu Leu Pro Asp Tyr Leu Gln Glu Arg Phe Val		
	245	250 255
Gln Ala Ala Leu Ser Tyr Ile Ala Cys Asn Ser Glu Gly Glu Phe Ile		
	260	265 270
Cys Lys Glu Asn Asp Cys Trp Cys His Cys Gly Pro Lys Phe Pro Glu		
	275	280 285
Cys Asn Cys Pro Ser Met Asp Ile Gln Ala Met Glu Glu Asn Leu Leu		
	290	295 300
Arg Ile Thr Glu Thr Trp Lys Ala Tyr Asn Ser Asp Phe Glu Glu Ser		
	305	310 315 320
Asp Glu Phe Lys Leu Phe Met Lys Arg Leu Pro Met Asn Tyr Phe Leu		
	325	330 335
Asn Thr Ser Thr Ile Met His Leu Trp Thr Met Asp Ser Asn Phe Gln		
	340	345 350
Arg Arg Tyr Glu Gln Leu Glu Asn Ser Met Lys Gln Leu Phe Leu Lys		
	355	360 365
Ala Gln Lys Ile Val His Lys Leu Phe Ser Leu Ser Lys Arg Cys His		
	370	375 380
Lys Gln Pro Leu Ile Ser Leu Pro Arg Gln Arg Thr Ser Thr Tyr Trp		
	385	390 395 400
Leu Thr Arg Ile Gln Ser Phe Leu Tyr Cys Asn Glu Asn Gly Leu Leu		
	405	410 415
Gly Ser Phe Ser Glu Glu Thr His Ser Cys Thr Cys Pro Asn Asp Gln		
	420	425 430
Val Val Cys Thr Ala Phe Leu Pro Cys Thr Val Gly Asp Ala Ser Ala		
	435	440 445
Cys Leu Thr Cys Ala Pro Asp Asn Arg Thr Arg Cys Gly Thr Cys Asn		

450	455	460
Thr Gly Tyr Met Leu Ser Gln Gly Leu Cys Lys Pro Glu Val Ala Glu		
465	470	475 480
Ser Thr Asp His Tyr Ile Gly Phe Glu Thr Asp Leu Gln Asp Leu Glu		
	485	490 495
Met Lys Tyr Leu Leu Gln Lys Thr Asp Arg Arg Ile Glu Val His Ala		
	500	505 510
Ile Phe Ile Ser Asn Asp Met Arg Leu Asn Ser Trp Phe Asp Pro Ser		
	515	520 525
Trp Arg Lys Arg Met Leu Leu Thr Leu Lys Ser Asn Lys Tyr Lys Ser		
	530	535 540
Ser Leu Val His Met Ile Leu Gly Leu Ser Leu Gln Ile Cys Leu Thr		
545	550	555 560
Lys Asn Ser Thr Leu Glu Pro Val Leu Ala Val Tyr Val Asn Pro Phe		
	565	570 575
Gly Gly Ser His Ser Glu Ser Trp Phe Met Pro Val Asn Glu Asn Ser		
	580	585 590
Phe Pro Asp Trp Glu Arg Thr Lys Leu Asp Leu Pro Leu Gln Cys Tyr		
	595	600 605
Asn Trp Thr Leu Thr Leu Gly Asn Lys Trp Lys Thr Phe Phe Glu Thr		
	610	615 620
Val His Ile Tyr Leu Arg Ser Arg Ile Lys Ser Asn Gly Pro Asn Gly		
625	630	635 640
Asn Glu Ser Ile Tyr Tyr Glu Pro Leu Glu Phe Ile Asp Pro Ser Arg		
	645	650 655
Asn Leu Gly Tyr Met Lys Ile Asn Asn Ile Gln Val Phe Gly Tyr Ser		
	660	665 670
Met His Phe Asp Pro Glu Ala Ile Arg Asp Leu Ile Leu Gln Leu Asp		
	675	680 685
Tyr Pro Tyr Thr Gln Gly Ser Gln Asp Ser Ala Leu Leu Gln Leu Leu		
	690	695 700
Glu Ile Arg Asp Arg Val Asn Lys Leu Ser Pro Pro Gly Gln Arg Arg		
705	710	715 720
Leu Asp Leu Phe Ser Cys Leu Leu Arg His Arg Leu Lys Leu Ser Thr		
	725	730 735
Ser Glu Val Val Arg Ile Gln Ser Ala Leu Gln Ala Phe Asn Ala Lys		
	740	745 750
Leu Pro Asn Thr Met Asp Tyr Asp Thr Thr Lys Leu Cys Ser		
	755	760 765

<210> 2230
 <211> 61
 <212> PRT
 <213> Homo sapiens

<400> 2230
 Met Lys Ser Ala Leu His Arg Asp Ile Cys Ile Leu Met Leu Thr Ala
 1 5 10 15
 Ala Leu Phe Thr Ile Ala Lys Thr Glu Lys Gln His Lys Cys Pro Ser
 20 25 30
 Ile Asp Glu Gln Ile Asn Asn Leu Gln Tyr Ile Cys Thr Met Glu Tyr
 35 40 45
 His Ser Ala Leu Gln Lys Glu Met Leu Leu Tyr Leu Gln
 50 55 60

<210> 2231
 <211> 133
 <212> PRT
 <213> Homo sapiens

<400> 2231
 Met Arg Met Ser Leu Ala Gln Arg Val Leu Leu Thr Trp Leu Phe Thr
 1 5 10 15
 Leu Leu Phe Leu Ile Met Leu Val Leu Lys Leu Asp Glu Lys Ala Pro
 20 25 30
 Trp Asn Trp Phe Leu Ile Phe Ile Pro Val Trp Ile Phe Asp Thr Ile
 35 40 45
 Leu Leu Val Leu Leu Ile Val Lys Met Ala Gly Arg Cys Lys Ser Gly
 50 55 60
 Phe Asp Pro Arg His Gly Ser His Asn Ile Lys Lys Lys Ala Trp Tyr
 65 70 75 80
 Leu Ile Ala Met Leu Leu Lys Leu Ala Phe Cys Leu Ala Leu Cys Ala
 85 90 95
 Lys Leu Glu Gln Phe Thr Thr Met Asn Leu Ser Tyr Val Phe Ile Pro
 100 105 110
 Leu Trp Ala Leu Leu Ala Gly Ala Leu Thr Glu Leu Gly Tyr Asn Val
 115 120 125
 Phe Phe Val Arg Asp
 130

<210> 2232
 <211> 131
 <212> PRT
 <213> Homo sapiens

<400> 2232

Met Ser Leu Ala Gln Arg Val Leu Leu Thr Trp Leu Phe Thr Leu Leu
 1 5 10 15
 Phe Leu Ile Met Leu Val Leu Lys Leu Asp Glu Lys Ala Pro Trp Asn
 20 25 30
 Trp Phe Leu Ile Phe Ile Pro Val Trp Ile Phe Asp Thr Ile Leu Leu
 35 40 45
 Val Leu Leu Ile Val Lys Met Ala Gly Arg Cys Lys Ser Gly Phe Asp
 50 55 60
 Pro Arg His Gly Ser His Asn Ile Lys Lys Lys Ala Trp Tyr Leu Ile
 65 70 75 80
 Ala Met Leu Leu Lys Leu Ala Phe Cys Leu Ala Leu Cys Ala Lys Leu
 85 90 95
 Glu Gln Phe Thr Thr Met Asn Leu Ser Tyr Val Phe Ile Pro Leu Trp
 100 105 110
 Ala Leu Leu Ala Gly Ala Leu Thr Glu Leu Gly Tyr Asn Val Phe Phe
 115 120 125
 Val Arg Asp
 130

<210> 2233

<211> 298

<212> PRT

<213> Homo sapiens

<400> 2233

Met Lys Thr Leu Gln Ser Thr Leu Leu Leu Leu Leu Val Pro Leu
 1 5 10 15
 Ile Lys Pro Ala Pro Pro Thr Gln Gln Asp Ser Arg Ile Ile Tyr Asp
 20 25 30
 Tyr Gly Thr Asp Asn Phe Glu Glu Ser Ile Phe Ser Gln Asp Tyr Glu
 35 40 45
 Asp Lys Tyr Leu Asp Gly Lys Asn Ile Lys Glu Lys Glu Thr Val Ile
 50 55 60
 Ile Pro Asn Glu Lys Ser Leu Gln Leu Gln Lys Asp Glu Ala Ile Thr
 65 70 75 80
 Pro Leu Pro Pro Lys Lys Glu Asn Asp Glu Met Pro Thr Cys Leu Leu
 85 90 95
 Cys Val Cys Leu Ser Gly Ser Val Tyr Cys Glu Glu Val Asp Ile Asp
 100 105 110
 Ala Val Pro Pro Leu Pro Lys Glu Ser Ala Tyr Leu Tyr Ala Arg Phe
 115 120 125

Asn Lys Ile Lys Lys Leu Thr Ala Lys Asp Phe Ala Asp Ile Pro Asn
 130 135 140
 Leu Arg Arg Leu Asp Phe Thr Gly Asn Leu Ile Glu Asp Ile Glu Asp
 145 150 155 160
 Gly Thr Phe Ser Lys Leu Ser Leu Leu Glu Glu Leu Ser Leu Ala Glu
 165 170 175
 Asn Gln Leu Leu Lys Leu Pro Val Leu Pro Pro Lys Leu Thr Leu Phe
 180 185 190
 Asn Ala Lys Tyr Asn Lys Ile Lys Ser Arg Gly Ile Lys Ala Asn Ala
 195 200 205
 Phe Lys Lys Leu Asn Asn Leu Thr Phe Leu Tyr Leu Asp His Asn Ala
 210 215 220
 Leu Glu Ser Val Pro Leu Asn Leu Pro Glu Ser Leu Arg Val Ile His
 225 230 235 240
 Leu Gln Phe Asn Asn Ile Ala Ser Ile Thr Asp Asp Thr Phe Cys Lys
 245 250 255
 Ala Asn Asp Thr Ser Tyr Ile Arg Asp Arg Ile Glu Glu Ile Arg Leu
 260 265 270
 Glu Gly Asn Pro Ile Val Leu Gly Lys His Pro Asn Ser Phe Ile Cys
 275 280 285
 Leu Lys Arg Leu Pro Ile Gly Ser Tyr Phe
 290 295

<210> 2234
 <211> 158
 <212> PRT
 <213> Homo sapiens

<400> 2234
 Met Ala Ala Ala Ser Ala Gly Ala Thr Arg Leu Leu Leu Leu Leu
 1 5 10 15
 Met Ala Val Ala Ala Pro Ser Arg Ala Arg Gly Ser Gly Cys Arg Ala
 20 25 30
 Gly Thr Gly Ala Arg Gly Ala Gly Ala Glu Gly Arg Glu Gly Glu Ala
 35 40 45
 Cys Gly Thr Val Gly Leu Leu Leu Glu His Ser Phe Glu Ile Asp Asp
 50 55 60
 Ser Ala Asn Phe Arg Lys Arg Gly Ser Leu Leu Trp Asn Gln Gln Asp
 65 70 75 80
 Gly Thr Leu Ser Leu Ser Gln Arg Gln Leu Ser Glu Glu Glu Arg Gly
 85 90 95

Arg Leu Arg Asp Val Ala Ala Ser Tyr Leu Asp Cys Gly Ala Thr Arg
 100 105 110

Ala Cys Gly Pro Leu Leu Cys Ala Thr Leu Pro Val Ser Leu Phe Lys
 115 120 125

Asn Ile Asp Asp Thr Leu Lys Cys Val Asn Val Leu Lys Ser Tyr Ser
 130 135 140

Phe Gln Gln Pro Lys Ala Thr Val Val Leu Ala Arg Arg Ser
 145 150 155

<210> 2235

<211> 58

<212> PRT

<213> Homo sapiens

<400> 2235

Met Thr Lys Ala Leu Ile Pro Thr Pro Phe Phe Leu Ala Ala Met Trp
 1 5 10 15

Pro Leu Trp Gln His Ser Trp Ala Gln Thr Leu Arg Ser Gln Arg Gln
 20 25 30

Glu Ala Asp Ala Trp Ala Lys Ala Gly Ala Gly Asn Ser Arg Gly Ser
 35 40 45

Leu Ala Trp Arg Leu Leu Met Ser Ser Gly
 50 55

<210> 2236

<211> 71

<212> PRT

<213> Homo sapiens

<400> 2236

Met Leu Val Ala Ala Ile Val Phe Ile Ser Phe Gly Val Val Ala Ala
 1 5 10 15

Phe Cys Cys Ala Ile Val Asp Gly Val Phe Ala Ala Gln His Ile Glu
 20 25 30

Pro Lys Ala Pro His His Gly Lys Met Pro Val Tyr Ser Ser Gly Val
 35 40 45

Gly Tyr Leu Tyr Asp Val Tyr Gln Thr Glu Val Ser Arg Ser Thr Glu
 50 55 60

Ile His Val Gly Leu Leu Asn
 65 70

<210> 2237

<211> 605

<212> PRT

<213> Homo sapiens

<400> 2237

Met Gly Arg Leu Leu Arg Ala Ala Arg Leu Pro Pro Leu Leu Ser Pro
 1 5 10 15
 Leu Leu Leu Leu Leu Val Gly Gly Ala Phe Leu Gly Ala Cys Val Ala
 20 25 30
 Gly Ser Asp Glu Pro Gly Pro Glu Gly Leu Thr Ser Thr Ser Leu Leu
 35 40 45
 Asp Leu Leu Leu Pro Thr Gly Leu Glu Pro Leu Asp Ser Glu Glu Pro
 50 55 60
 Ser Glu Thr Met Gly Leu Gly Ala Gly Leu Gly Ala Pro Gly Ser Gly
 65 70 75 80
 Phe Pro Ser Glu Glu Asn Glu Glu Ser Arg Ile Leu Gln Pro Pro Gln
 85 90 95
 Tyr Phe Trp Glu Glu Glu Glu Glu Leu Asn Asp Ser Ser Leu Asp Leu
 100 105 110
 Gly Pro Thr Ala Asp Tyr Val Phe Pro Asp Leu Thr Glu Lys Ala Gly
 115 120 125
 Ser Ile Glu Asp Thr Ser Gln Ala Gln Glu Leu Pro Asn Leu Pro Ser
 130 135 140
 Pro Leu Pro Lys Met Asn Leu Val Glu Pro Pro Trp His Met Pro Pro
 145 150 155 160
 Arg Glu Glu Glu Glu Glu Glu Glu Glu Glu Glu Arg Glu Lys Glu
 165 170 175
 Glu Val Glu Lys Gln Glu Glu Glu Glu Glu Glu Glu Leu Leu Pro Val
 180 185 190
 Asn Gly Ser Gln Glu Glu Ala Lys Pro Gln Val Arg Asp Phe Ser Leu
 195 200 205
 Thr Ser Ser Ser Gln Thr Pro Gly Ala Thr Lys Ser Arg His Glu Asp
 210 215 220
 Ser Gly Asp Gln Ala Ser Ser Gly Val Glu Val Glu Ser Ser Met Gly
 225 230 235 240
 Pro Ser Leu Leu Leu Pro Ser Val Thr Pro Thr Thr Val Thr Pro Gly
 245 250 255
 Asp Gln Asp Ser Thr Ser Gln Glu Ala Glu Ala Thr Val Leu Pro Ala
 260 265 270
 Ala Gly Leu Gly Val Glu Phe Glu Ala Pro Gln Glu Ala Ser Glu Glu
 275 280 285
 Ala Thr Ala Gly Ala Ala Gly Leu Ser Gly Gln His Glu Glu Val Pro
 290 295 300

Ala Leu Pro Ser Phe Pro Gln Thr Thr Ala Pro Ser Gly Ala Glu His
 305 310 315 320
 Pro Asp Glu Asp Pro Leu Gly Ser Arg Thr Ser Ala Ser Ser Pro Leu
 325 330 335
 Ala Pro Gly Asp Met Glu Leu Thr Pro Ser Ser Ala Thr Leu Gly Gln
 340 345 350
 Glu Asp Leu Asn Gln Gln Leu Leu Glu Gly Gln Ala Ala Glu Ala Gln
 355 360 365
 Ser Arg Ile Pro Trp Asp Ser Thr Gln Val Ile Cys Lys Asp Trp Ser
 370 375 380
 Asn Leu Ala Gly Lys Asn Tyr Ile Ile Leu Asn Met Thr Glu Asn Ile
 385 390 395 400
 Asp Cys Glu Val Phe Arg Gln His Arg Gly Pro Gln Leu Leu Ala Leu
 405 410 415
 Val Glu Glu Val Leu Pro Arg His Gly Ser Gly His His Gly Ala Trp
 420 425 430
 His Ile Ser Leu Ser Lys Pro Ser Glu Lys Glu Gln His Leu Leu Met
 435 440 445
 Thr Leu Val Gly Glu Gln Gly Val Val Pro Thr Gln Asp Val Leu Ser
 450 455 460
 Met Leu Gly Asp Ile Arg Arg Ser Leu Glu Glu Ile Gly Ile Gln Asn
 465 470 475 480
 Tyr Ser Thr Thr Ser Ser Cys Gln Ala Arg Ala Ser Gln Val Arg Ser
 485 490 495
 Asp Tyr Gly Thr Leu Phe Val Val Leu Val Val Ile Gly Ala Ile Cys
 500 505 510
 Ile Ile Ile Ile Ala Leu Gly Leu Leu Tyr Asn Cys Trp Gln Arg Arg
 515 520 525
 Leu Pro Lys Leu Lys His Val Ser His Gly Glu Glu Leu Arg Phe Val
 530 535 540
 Glu Asn Gly Cys His Asp Asn Pro Thr Leu Asp Val Ala Ser Asp Ser
 545 550 555 560
 Gln Ser Glu Met Gln Glu Lys His Pro Ser Leu Asn Gly Gly Gly Ala
 565 570 575
 Leu Asn Gly Pro Gly Ser Trp Gly Ala Leu Met Gly Gly Lys Arg Asp
 580 585 590
 Pro Glu Asp Ser Asp Val Phe Glu Glu Asp Thr His Leu
 595 600 605

<210> 2238

<211> 432

<212> PRT

<213> Homo sapiens

<400> 2238

Met Asp Ala Arg Trp Trp Ala Val Val Val Leu Ala Ala Phe Pro Ser
 1 5 10 15

Leu Gly Ala Gly Gly Glu Thr Pro Glu Ala Pro Pro Glu Ser Trp Thr
 20 25 30

Gln Leu Trp Phe Phe Arg Phe Val Val Asn Ala Ala Gly Tyr Ala Ser
 35 40 45

Phe Met Val Pro Gly Tyr Leu Leu Val Gln Tyr Phe Arg Arg Lys Asn
 50 55 60

Tyr Leu Glu Thr Gly Arg Gly Leu Cys Phe Pro Leu Val Lys Ala Cys
 65 70 75 80

Val Phe Gly Asn Glu Pro Lys Ala Ser Asp Glu Val Pro Leu Ala Pro
 85 90 95

Arg Thr Glu Ala Ala Glu Thr Thr Pro Met Trp Gln Ala Leu Lys Leu
 100 105 110

Leu Phe Cys Ala Thr Gly Leu Gln Val Ser Tyr Leu Thr Trp Gly Val
 115 120 125

Leu Gln Glu Arg Val Met Thr Arg Ser Tyr Gly Ala Thr Ala Thr Ser
 130 135 140

Pro Gly Glu Arg Phe Thr Asp Ser Gln Phe Leu Val Leu Met Asn Arg
 145 150 155 160

Val Leu Ala Leu Ile Val Ala Gly Leu Ser Cys Val Leu Cys Lys Gln
 165 170 175

Pro Arg His Gly Ala Pro Met Tyr Arg Tyr Ser Phe Ala Ser Leu Ser
 180 185 190

Asn Val Leu Ser Ser Trp Cys Gln Tyr Glu Ala Leu Lys Phe Val Ser
 195 200 205

Phe Pro Thr Gln Val Leu Ala Lys Ala Ser Lys Val Ile Pro Val Met
 210 215 220

Leu Met Gly Lys Leu Val Ser Arg Arg Ser Tyr Glu His Trp Glu Tyr
 225 230 235 240

Leu Thr Ala Thr Leu Ile Ser Ile Gly Val Ser Met Phe Leu Leu Ser
 245 250 255

Ser Gly Pro Glu Pro Arg Ser Ser Pro Ala Thr Thr Leu Ser Gly Leu
 260 265 270

Ile Leu Leu Ala Gly Tyr Ile Ala Phe Asp Ser Phe Thr Ser Asn Trp
 275 280 285

Gln Asp Ala Leu Phe Ala Tyr Lys Met Ser Ser Val Gln Met Met Phe

290 295 300
 Gly Val Asn Phe Phe Ser Cys Leu Phe Thr Val Gly Ser Leu Leu Glu
 305 310 315 320
 Gln Gly Ala Leu Leu Glu Gly Thr Arg Phe Met Gly Arg His Ser Glu
 325 330 335
 Phe Ala Ala His Ala Leu Leu Leu Ser Ile Cys Ser Ala Cys Gly Gln
 340 345 350
 Leu Phe Ile Phe Tyr Thr Ile Gly Gln Phe Gly Ala Ala Val Phe Thr
 355 360 365
 Ile Ile Met Thr Leu Arg Gln Ala Phe Ala Ile Leu Leu Ser Cys Leu
 370 375 380
 Leu Tyr Gly His Thr Val Thr Val Val Gly Gly Leu Gly Val Ala Val
 385 390 395 400
 Val Phe Ala Ala Leu Leu Arg Val Tyr Ala Arg Gly Arg Leu Lys
 405 410 415
 Gln Arg Gly Lys Lys Ala Val Pro Val Glu Ser Pro Val Gln Lys Val
 420 425 430

<210> 2239

<211> 432

<212> PRT

<213> Homo sapiens

<400> 2239

Met Asp Ala Arg Trp Trp Ala Val Val Val Leu Ala Ala Phe Pro Ser
 1 5 10 15
 Leu Gly Ala Gly Gly Glu Thr Pro Glu Ala Pro Pro Glu Ser Trp Thr
 20 25 30
 Gln Leu Trp Phe Phe Arg Phe Val Val Asn Ala Ala Gly Tyr Ala Ser
 35 40 45
 Phe Met Val Pro Gly Tyr Leu Leu Val Gln Tyr Phe Arg Arg Lys Asn
 50 55 60
 Tyr Leu Glu Thr Gly Arg Gly Leu Cys Phe Pro Leu Val Lys Ala Cys
 65 70 75 80
 Val Phe Gly Asn Glu Pro Lys Ala Ser Asp Glu Val Pro Leu Ala Pro
 85 90 95
 Arg Thr Glu Ala Ala Glu Thr Thr Pro Met Trp Gln Ala Leu Lys Leu
 100 105 110
 Leu Phe Cys Ala Thr Gly Leu Gln Val Ser Tyr Leu Thr Trp Gly Val
 115 120 125

1503

Leu Gln Glu Arg Val Met Thr Arg Ser Tyr Gly Ala Thr Ala Thr Ser
 130 135 140
 Pro Gly Glu Arg Phe Thr Asp Ser Gln Phe Leu Val Leu Met Asn Arg
 145 150 155 160
 Val Leu Ala Leu Ile Val Ala Gly Leu Ser Cys Val Leu Cys Lys Gln
 165 170 175
 Pro Arg His Gly Ala Pro Met Tyr Arg Tyr Ser Phe Ala Ser Leu Ser
 180 185 190
 Asn Val Leu Ser Ser Trp Cys Gln Tyr Glu Ala Leu Lys Phe Val Ser
 195 200 205
 Phe Pro Thr Gln Val Leu Ala Lys Ala Ser Lys Val Ile Pro Val Met
 210 215 220
 Leu Met Gly Lys Leu Val Ser Arg Arg Ser Tyr Glu His Trp Glu Tyr
 225 230 235 240
 Leu Thr Ala Thr Leu Ile Ser Ile Gly Val Ser Met Phe Leu Leu Ser
 245 250 255
 Ser Gly Pro Glu Pro Arg Ser Ser Pro Ala Thr Thr Leu Ser Gly Leu
 260 265 270
 Ile Leu Leu Ala Gly Tyr Ile Ala Phe Asp Ser Phe Thr Ser Asn Trp
 275 280 285
 Gln Asp Ala Leu Phe Ala Tyr Lys Met Ser Ser Val Gln Met Met Phe
 290 295 300
 Gly Val Asn Phe Phe Ser Cys Leu Phe Thr Val Gly Ser Leu Leu Glu
 305 310 315 320
 Gln Gly Ala Leu Leu Glu Gly Thr Arg Phe Met Gly Arg His Ser Glu
 325 330 335
 Phe Ala Ala His Ala Leu Leu Leu Ser Ile Cys Ser Ala Cys Gly Gln
 340 345 350
 Leu Phe Ile Phe Tyr Thr Ile Gly Gln Phe Gly Ala Ala Val Phe Thr
 355 360 365
 Ile Ile Met Thr Leu Arg Gln Ala Phe Ala Ile Leu Leu Ser Cys Leu
 370 375 380
 Leu Tyr Gly His Thr Val Thr Val Val Gly Gly Leu Gly Val Ala Val
 385 390 395 400
 Val Phe Ala Ala Leu Leu Arg Val Tyr Ala Arg Gly Arg Leu Lys
 405 410 415
 Gln Arg Gly Lys Lys Ala Val Pro Val Glu Ser Pro Val Gln Lys Val
 420 425 430

<210> 2240

<211> 69

<212> PRT

<213> Homo sapiens

<400> 2240

Met Lys Ala Val Val Leu Leu Lys Ala Phe Ser Phe Ser Leu Cys Ser
 1 5 10 15

Ala Ile Ser Pro Val Thr Pro Gly Phe Arg Gln Thr Ile Asn Val Leu
 20 25 30

Asp Thr Val Ala Phe Ser Ala Phe Phe Ile Tyr Leu Phe Thr Val Thr
 35 40 45

Ala Ser Ile Asn Phe Tyr Ala Tyr Phe Ser Ser Phe Leu Ala Gly Ala
 50 55 60

Pro Phe Ile Lys Ile
 65

<210> 2241

<211> 57

<212> PRT

<213> Homo sapiens

<400> 2241

Met Leu Asp Leu Ser Pro Ser Leu Thr Leu Lys Phe Cys Phe Leu His
 1 5 10 15

Leu Val Phe Leu Pro Phe Lys Val Tyr Cys Gln Leu Leu Gln Glu Leu
 20 25 30

Leu Ser Lys Pro Val Ser Lys Leu Pro Leu Thr Pro Gln Cys Gln Ser
 35 40 45

Trp Ala Arg Pro Leu Gly Asp Leu Glu
 50 55

<210> 2242

<211> 145

<212> PRT

<213> Homo sapiens

<400> 2242

Met Leu Arg Thr Leu Val Leu Lys Gln Thr Leu Asp Leu Leu Leu Pro
 1 5 10 15

Leu Leu Glu Ala Leu Leu Val Leu Gly Val Pro Gln His Leu Glu Leu
 20 25 30

Gln Pro Leu Pro Val Gln Val Ser Leu Leu Leu Leu Gln Leu Leu Asp
 35 40 45

Leu Gly Ser Leu Lys Ser His Arg Leu His His Phe His Ser Lys Ala
50 55 60

Leu Gln Leu Pro Val Leu Asp His Leu Asp Phe Gln Asp Phe Gln Leu
65 70 75 80

Pro Trp Gln Gln Val Leu Ser Glu Leu Pro Val Ala Pro Ala Phe Gly
85 90 95

Gly Gly Ser Ser Val Ala Gly Phe Gly Ser Pro Gly Leu Thr Phe Ser
100 105 110

His Trp Leu Phe Leu Ser His Pro Val Asp Thr Phe Gly Asn Ser Gln
115 120 125

Ala Tyr Pro Thr Ser Leu Ser Ala Leu Gln Ala Ser Ile Asn Cys Asn
130 135 140

Arg
145

<210> 2243

<211> 77

<212> PRT

<213> Homo sapiens

<400> 2243

Met Ala Ile Cys Gln Phe Phe Leu Gln Gly Arg Cys Arg Phe Gly Asp
1 5 10 15

Arg Cys Trp Asn Glu His Pro Gly Ala Arg Gly Ala Gly Gly Arg
20 25 30

Gln Gln Pro Gln Gln Gln Pro Ser Gly Asn Asn Arg Arg Gly Trp Asn
35 40 45

Thr Thr Ser Gln Arg Tyr Ser Asn Val Ile Gln Pro Ser Ser Phe Ser
50 55 60

Lys Ser Thr Pro Trp Gly Gly Ser Arg Asp Gln Glu Thr
65 70 75

<210> 2244

<211> 86

<212> PRT

<213> Homo sapiens

<400> 2244

Met Tyr Lys Leu Glu Leu Ile Phe Pro Thr Ala Leu Val Leu Pro Ile
1 5 10 15

Leu Val Asn Gly Thr Val Ile Cys Pro Leu Lys Ala Arg Asn Ser Val
20 25 30

Ile Pro Ser Ser Ser Phe Leu Thr Ser Leu Gln Leu Thr Ile Trp Ile

35

40

45

Gln Pro Cys Leu Phe Leu Pro Thr Thr Thr Gly Leu Ser Ser Gly Tyr
50 55 60

His Thr Phe Leu Ser Gly Leu His Ser Cys His Ile Ser Phe Ala Thr
65 70 75 80

Ala Ile Pro Gly Cys Leu
85

<210> 2245

<211> 208

<212> PRT

<213> Homo sapiens

<400> 2245

Met Gly Leu Gly Ala Arg Gly Ala Trp Ala Ala Leu Leu Leu Gly Thr
1 5 10 15

Leu Gln Val Leu Ala Leu Leu Gly Ala Ala His Glu Ser Ala Ala Met
20 25 30

Ala Ala Ser Ala Asn Ile Glu Asn Ser Gly Leu Pro His Asn Ser Ser
35 40 45

Ala Asn Ser Thr Glu Thr Leu Gln His Val Pro Ser Asp His Thr Asn
50 55 60

Glu Thr Ser Asn Ser Thr Val Lys Pro Pro Thr Ser Val Ala Ser Asp
65 70 75 80

Ser Ser Asn Thr Thr Val Thr Thr Met Lys Pro Thr Ala Ala Ser Asn
85 90 95

Thr Thr Thr Pro Gly Met Val Ser Thr Asn Met Thr Ser Thr Thr Leu
100 105 110

Lys Ser Thr Pro Lys Thr Thr Ser Val Ser Gln Asn Thr Ser Gln Ile
115 120 125

Ser Thr Ser Thr Met Thr Val Thr His Asn Ser Ser Val Thr Ser Ala
130 135 140

Ala Ser Ser Val Thr Ile Thr Thr Thr Met His Ser Glu Ala Lys Lys
145 150 155 160

Gly Ser Lys Phe Asp Thr Gly Ser Phe Val Gly Gly Ile Val Leu Thr
165 170 175

Leu Gly Val Leu Ser Ile Leu Tyr Ile Gly Cys Lys Met Tyr Tyr Ser
180 185 190

Arg Arg Gly Ile Arg Tyr Arg Thr Ile Asp Glu His Asp Ala Ile Ile
195 200 205

<210> 2246

<211> 215

<212> PRT

<213> Homo sapiens

<400> 2246

Met Arg Leu Pro Ala Trp Cys Arg His Thr Thr Leu Ala Ile Ser Cys
 1 5 10 15

Trp His Cys Leu Val Leu Ala Arg Ala Ser Ala Asp Ser Ala Ser Leu
 20 25 30

Pro Thr Ile Ser His Leu Gly Val Lys Pro Leu Ser Val Gly Trp Gly
 35 40 45

Ala Pro Ser Thr Leu Pro Val Ser Pro Cys Gly Gly Lys Pro Ala Ala
 50 55 60

Pro Thr Ser Ala Ser Pro Ala Ala Ala Pro Leu Arg Phe Trp Arg Pro
 65 70 75 80

Gly Ala Ser Gly Gly Gly Ala Gly Gly Thr Arg Arg Leu Ala Leu Cys
 85 90 95

Arg Leu Val Thr Ala Arg Thr Thr Leu Ala Thr Gly Thr Pro Gly Leu
 100 105 110

Ser Ala Arg Pro Arg Gln Arg Pro Cys Leu Leu Pro Val Leu Pro Arg
 115 120 125

Arg Pro Ala Glu Leu Ser Val Ser Leu Glu Pro Ser Pro Gly Ser Ser
 130 135 140

Gly Arg Gly Phe Leu Cys Leu Pro Phe Cys Lys Arg Asp Ala Asp Thr
 145 150 155 160

Ser Leu Gly Gln Thr Leu Thr Ser Ser Cys Ser Leu Ser Ser Ile Leu
 165 170 175

Val Gly Gly Thr Leu Arg Pro Arg Cys Ser Cys Pro Pro Phe Thr Gln
 180 185 190

Arg Ser Ala Phe His Leu Arg Thr Pro His Asn Gln Tyr His His Gly
 195 200 205

Ser Thr Ser Leu Ala Ser His
 210 215

<210> 2247

<211> 139

<212> PRT

<213> Homo sapiens

<400> 2247

Met Lys Thr Leu Leu Leu Leu Val Gly Leu Leu Leu Thr Trp Glu Asn

1	5	10	15
Gly Arg Val	Leu Gly Asp Gln Met Val	Ser Asp Thr Glu Leu Gln Glu	
	20	25	30
Met Ser Thr	Glu Gly Ser Lys Tyr Ile Asn Arg Glu	Ile Lys Asn Ala	
	35	40	45
Leu Lys Gly	Val Lys Gln Ile Lys Thr Leu Ile Glu Gln Thr Asn Glu		
	50	55	60
Glu Arg Lys	Ser Leu Leu Thr Asn Leu Glu Glu Ala Lys Lys Lys Lys		
	65	70	75 80
Glu Asp Ala	Leu Asn Asp Thr Lys Asp Ser Glu Met Lys Leu Lys Ala		
	85	90	95
Ser Gln Gly	Val Cys Asn Asp Thr Met Met Ala Leu Trp Glu Glu Cys		
	100	105	110
Lys Pro Cys	Leu Lys Gln Thr Trp Gly Lys Gly Leu Arg Pro Ser Leu		
	115	120	125
Gln Lys Gln	His Arg Ala Gly Trp Pro Pro Gly		
	130	135	

<210> 2248

<211> 363

<212> PRT

<213> Homo sapiens

<400> 2248

Met Lys Thr	Leu Leu Leu Leu Val Gly Leu Leu Leu Thr Trp Glu Asn	
1	5	10 15
Gly Arg Val	Leu Gly Asp Gln Met Val Ser Asp Thr Glu Leu Gln Glu	
	20	25 30
Met Ser Thr	Glu Gly Ser Lys Tyr Ile Asn Arg Glu Ile Lys Asn Ala	
	35	40 45
Leu Lys Gly	Val Lys Gln Ile Lys Thr Leu Ile Glu Gln Thr Asn Glu	
	50	55 60
Glu Arg Lys	Ser Leu Leu Thr Asn Leu Glu Glu Ala Lys Lys Lys Lys	
	65	70 75 80
Glu Asp Ala	Leu Asn Asp Thr Lys Asp Ser Glu Met Lys Leu Lys Ala	
	85	90 95
Ser Gln Gly	Val Cys Asn Asp Thr Met Met Ala Leu Trp Glu Glu Cys	
	100	105 110
Lys Pro Cys	Leu Lys Gln Thr Cys Met Lys Phe Tyr Ala Arg Val Cys	
	115	120 125
Arg Ser Ser	Thr Gly Leu Val Gly His Gln Val Glu Glu Phe Leu Asn	
	130	135 140

Gln Ser Ser Pro Phe Tyr Phe Trp Ile Asn Gly Asp Arg Ile Asp Ser
 145 150 155 160
 Leu Leu Glu Asn Asp Arg Gln Gln Thr His Ala Leu Asp Val Met Gln
 165 170 175
 Asp Ser Phe Asp Arg Ala Ser Ser Ile Met Asp Glu Leu Phe Gln Asp
 180 185 190
 Arg Phe Phe Thr Arg Glu Ala Gln Asp Pro Phe His Phe Ser Pro Phe
 195 200 205
 Ser Ser Phe Gln Arg Arg Pro Phe Phe Phe Asn Ile Lys His Arg Phe
 210 215 220
 Ala Arg Asn Ile Met Pro Phe Pro Gly Tyr Gln Pro Leu Asn Phe His
 225 230 235 240
 Asp Met Phe Gln Pro Phe Phe Asp Met Ile His Gln Ala Gln Gln Ala
 245 250 255
 Met Asp Val Asn Leu His Arg Leu Pro His Phe Pro Met Glu Phe Thr
 260 265 270
 Glu Glu Asp Asn Gln Asp Gly Ala Val Cys Lys Glu Ile Arg His Asn
 275 280 285
 Ser Thr Gly-Cys Leu Lys Met Lys Asp Gln Cys Glu Lys Cys Arg Glu
 290 295 300
 Ile Leu Ser Val Asp Cys Ser Ser Asn Asn Pro Ala Gln Val Gln Leu
 305 310 315 320
 Arg Gln Glu Leu Asn Asn Ser Leu Gln Ile Ala Glu Lys Phe Thr Lys
 325 330 335
 Leu Val Arg Arg Ala Ala Ala Val Leu Pro Gly Glu Asp Val Gln His
 340 345 350
 Val Leu Pro Ala Glu Ala Ala Gly Arg Ala Val
 355 360

<210> 2249

<211> 85

<212> PRT

<213> Homo sapiens

<400> 2249

Met Ala Ala Gly Gly Cys Leu Leu Leu Leu Ala Phe Phe Pro Leu Ser
 1 5 10 15
 Arg Gly Ser His Phe His Leu Gln Lys Arg Ala Leu Ala Glu Ala Ser
 20 25 30
 Phe Glu Ala Thr Leu Cys Glu Leu Phe Val Ile Glu Thr Ala Ser Lys
 35 40 45

Gly Thr Leu Leu Ile Ile Thr Ile Arg His Leu Val Thr Tyr Ile Ile
 50 55 60

Val Ile Phe Lys Cys His Met Leu Lys Asn Glu Met Asn Ser Ser Ile
 65 70 75 80

Lys Pro His Phe Gln
 85

<210> 2250

<211> 184

<212> PRT

<213> Homo sapiens

<400> 2250

Met Lys Ala Leu Gly Ala Val Leu Leu Ala Leu Leu Leu Cys Gly Arg
 1 5 10 15

Pro Gly Arg Gly Gln Thr Gln Gln Glu Glu Glu Glu Asp Glu Asp
 20 25 30

His Gly Pro Asp Asp Tyr Asp Glu Glu Asp Glu Asp Glu Val Glu Glu
 35 40 45

Glu Glu Thr Asn Arg Leu Pro Gly Gly Arg Ser Arg Val Leu Leu Arg
 50 55 60

Cys Tyr Thr Cys Lys Ser Leu Pro Arg Asp Glu Arg Cys Asn Leu Thr
 65 70 75 80

Gln Asn Cys Ser His Gly Gln Thr Cys Thr Thr Leu Ile Ala His Gly
 85 90 95

Asn Thr Glu Ser Gly Leu Leu Thr Thr His Ser Thr Trp Cys Thr Asp
 100 105 110

Ser Cys Gln Pro Ile Thr Lys Thr Val Glu Gly Thr Gln Val Thr Met
 115 120 125

Thr Cys Cys Gln Ser Ser Leu Cys Asn Val Pro Pro Trp Gln Ser Ser
 130 135 140

Arg Val Gln Asp Pro Thr Gly Lys Gly Ala Gly Gly Pro Arg Gly Ser
 145 150 155 160

Ser Glu Thr Val Gly Ala Ala Leu Leu Leu Asn Leu Leu Ala Gly Leu
 165 170 175

Gly Ala Met Gly Ala Arg Arg Pro
 180

<210> 2251

<211> 352

<212> PRT

<213> Homo sapiens

<400> 2251

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Met Val Glu Ala Leu Arg Ala Gly Ser Ala Arg Leu Val Ala Ala Pro
 1           5           10           15

Val Ala Thr Ala Asn Pro Ala Arg Cys Leu Ala Leu Asn Val Ser Leu
          20           25           30

Arg Glu Trp Thr Ala Arg Tyr Gly Ala Ala Pro Ala Ala Pro Arg Cys
 35           40           45

Asp Ala Leu Asp Gly Asp Ala Val Val Leu Leu Arg Ala Arg Asp Leu
 50           55           60

Phe Asn Leu Ser Ala Pro Leu Ala Arg Pro Val Gly Thr Ser Leu Phe
 65           70           75           80

Leu Gln Thr Ala Leu Arg Gly Trp Ala Val Gln Leu Leu Asp Leu Thr
          85           90           95

Phe Ala Ala Ala Arg Gln Pro Pro Leu Ala Thr Ala His Ala Arg Trp
          100          105          110

Lys Ala Glu Arg Glu Gly Arg Ala Arg Arg Ala Ala Leu Leu Arg Ala
          115          120          125

Leu Gly Ile Arg Leu Val Ser Trp Glu Gly Gly Arg Leu Glu Trp Phe
          130          135          140

Gly Cys Asn Lys Glu Thr Thr Arg Cys Phe Gly Thr Val Val Gly Asp
          145          150          155          160

Thr Pro Ala Tyr Leu Tyr Glu Glu Arg Trp Thr Pro Pro Cys Cys Leu
          165          170          175

Arg Ala Leu Arg Glu Thr Ala Arg Tyr Val Val Gly Val Leu Glu Ala
          180          185          190

Ala Gly Val Arg Tyr Trp Leu Glu Gly Gly Ser Leu Leu Gly Ala Ala
          195          200          205

Arg His Gly Asp Ile Ile Pro Trp Asp Tyr Asp Val Asp Leu Gly Ile
          210          215          220

Tyr Leu Glu Asp Val Gly Asn Cys Glu Gln Leu Arg Gly Ala Glu Ala
          225          230          235          240

Gly Ser Val Val Asp Glu Arg Gly Phe Val Trp Glu Lys Ala Val Glu
          245          250          255

Gly Asp Phe Phe Arg Val Gln Tyr Ser Glu Ser Asn His Leu His Val
          260          265          270

Asp Leu Trp Pro Phe Tyr Pro Arg Asn Gly Val Met Thr Lys Asp Thr
          275          280          285

Trp Leu Asp His Arg Gln Asp Val Glu Phe Pro Glu His Phe Leu Gln
          290          295          300

Pro Leu Val Pro Leu Pro Phe Ala Gly Phe Val Ala Gln Ala Pro Asn
          305          310          315          320

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Asn Tyr Arg Arg Phe Leu Glu Leu Lys Phe Gly Pro Gly Val Ile Glu
 325 330 335

Asn Pro Gln Tyr Pro Asn Pro Ala Leu Leu Ser Leu Thr Gly Ser Gly
 340 345 350

<210> 2252

<211> 448

<212> PRT

<213> Homo sapiens

<400> 2252

Met Ala Trp Ala Ser Arg Leu Gly Leu Leu Leu Ala Leu Leu Leu Pro
 1 5 10 15

Val Val Gly Ala Ser Thr Pro Gly Thr Val Val Arg Leu Asn Lys Ala
 20 25 30

Ala Leu Ser Tyr Val Ser Glu Ile Gly Lys Ala Pro Leu Gln Arg Ala
 35 40 45

Leu Gln Val Thr Val Pro His Phe Leu Asp Trp Ser Gly Glu Ala Leu
 50 55 60

Gln Pro Thr Arg Ile Arg Ile Leu Asn Val His Val Pro Arg Leu His
 65 70 75 80

Leu Lys Phe Ile Ala Gly Phe Gly Val Arg Leu Leu Ala Ala Ala Asn
 85 90 95

Phe Thr Phe Lys Val Phe Arg Ala Pro Glu Pro Leu Glu Leu Thr Leu
 100 105 110

Pro Val Glu Leu Leu Ala Asp Thr Arg Val Thr Gln Ser Ser Ile Arg
 115 120 125

Thr Pro Val Val Ser Ile Ser Ala Cys Ser Leu Phe Ser Gly His Ala
 130 135 140

Asn Glu Phe Asp Gly Ser Asn Ser Thr Ser His Ala Leu Leu Val Leu
 145 150 155 160

Val Gln Lys His Ile Lys Ala Val Leu Ser Asn Lys Leu Cys Leu Ser
 165 170 175

Ile Ser Asn Leu Val Gln Gly Val Asn Val His Leu Gly Thr Leu Ile
 180 185 190

Gly Leu Asn Pro Val Gly Pro Glu Ser Gln Ile Arg Tyr Ser Met Val
 195 200 205

Ser Val Pro Thr Val Thr Ser Asp Tyr Ile Ser Leu Glu Val Asn Ala
 210 215 220

Val Leu Phe Leu Leu Gly Lys Pro Ile Ile Leu Pro Thr Asp Ala Thr
 225 230 235 240
 Pro Phe Val Leu Pro Arg His Val Gly Thr Glu Gly Ser Met Ala Thr
 245 250 255
 Val Gly Leu Ser Gln Gln Leu Phe Asp Ser Ala Leu Leu Leu Leu Gln
 260 265 270
 Lys Ala Gly Ala Leu Asn Leu Asp Ile Thr Gly Gln Leu Arg Ser Asp
 275 280 285
 Asp Asn Leu Leu Asn Thr Ser Ala Leu Gly Arg Leu Ile Pro Glu Val
 290 295 300
 Ala Arg Gln Phe Pro Glu Pro Met Pro Val Val Leu Lys Val Arg Leu
 305 310 315 320
 Gly Ala Thr Pro Val Ala Met Leu His Thr Asn Asn Ala Thr Leu Arg
 325 330 335
 Leu Gln Pro Phe Val Glu Val Leu Ala Thr Ala Ser Asn Ser Ala Phe
 340 345 350
 Gln Ser Leu Phe Ser Leu Asp Val Val Val Asn Leu Arg Leu Gln Leu
 355 360 365
 Ser Val Ser Lys Val Lys Leu Gln Gly Thr Thr Ser Val Leu Gly Asp
 370 375 380
 Val Gln Leu Thr Val Ala Ser Ser Asn Val Gly Phe Ile Asp Thr Asp
 385 390 395 400
 Gln Val Arg Thr Leu Met Gly Thr Val Phe Glu Lys Pro Leu Leu Asp
 405 410 415
 His Leu Asn Ala Leu Leu Ala Met Gly Ile Ala Leu Pro Gly Val Val
 420 425 430
 Asn Leu His Tyr Val Pro Leu Arg Ser Leu Ser Met Arg Ala Thr Trp
 435 440 445

<210> 2253

<211> 183

<212> PRT

<213> Homo sapiens

<400> 2253

Met Glu Pro Glu Glu Gly Thr Pro Leu Trp Arg Leu Gln Lys Leu Pro
 1 5 10 15
 Ala Glu Leu Gly Pro Gln Leu Leu His Lys Ile Ile Asp Gly Ile Cys
 20 25 30
 Gly Arg Ala Tyr Pro Val Tyr Gln Asp Tyr His Thr Val Trp Glu Ser
 1514

[illegible]

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<210> 2254
<211> 121
<212> PRT
<213> Homo sapiens
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<400> 2254
Met Pro Cys Gly Arg Gln His Leu Gln Asn Leu Asp Asp Ala Val Asn
  1          5          10          15
Gly Ser Ala Trp Thr Ile Leu Leu Leu Thr Glu Asn Phe Leu Arg Asp
          20          25          30
Thr Trp Cys Asn Phe Gln Phe Tyr Thr Ser Leu Met Asn Ser Val Asn
          35          40          45
Arg Gln His Lys Tyr Asn Ser Val Ile Pro Met Arg Pro Leu Asn Asn
          50          55          60
Pro Leu Pro Arg Glu Arg Thr Pro Phe Ala Leu Gln Thr Ile Asn Ala
  65          70          75          80
Leu Glu Glu Glu Ser Arg Gly Phe Pro Thr Gln Val Glu Arg Ile Phe
          85          90          95
Gln Glu Ser Val Tyr Lys Thr Gln Gln Thr Ile Trp Lys Glu Thr Arg
          100          105          110
Asn Met Val Gln Arg Gln Phe Ile Ala
          115          120

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<210> 2255

<211> 251

<212> PRT

<213> Homo sapiens

<400> 2255

Met Leu Phe His Tyr Asp Trp Ile Ser Ile Pro Leu Val Tyr Thr Gln
 1 5 10 15

Val Val Thr Ile Ala Val Tyr Ser Phe Phe Ala Leu Ser Leu Val Gly
 20 25 30

Arg Gln Phe Val Glu Pro Glu Ala Gly Ala Ala Lys Pro Gln Lys Leu
 35 40 45

Leu Lys Pro Gly Gln Glu Pro Ala Pro Ala Leu Gly Asp Pro Asp Met
 50 55 60

Tyr Val Pro Leu Thr Thr Leu Leu Gln Phe Phe Phe Tyr Ala Gly Trp
 65 70 75 80

Leu Lys Val Ala Glu Gln Ile Ile Asn Pro Phe Gly Glu Asp Asp Asp
 85 90 95

Asp Phe Glu Thr Asn Gln Leu Ile Asp Arg Asn Leu Gln Val Ser Leu
 100 105 110

Leu Ser Val Asp Glu Met Tyr Gln Asn Leu Pro Pro Ala Glu Lys Asp
 115 120 125

Gln Tyr Trp Asp Glu Asp Gln Pro Gln Pro Pro Tyr Thr Val Ala Thr
 130 135 140

Ala Ala Glu Ser Leu Arg Pro Ser Phe Leu Gly Ser Thr Phe Asn Leu
 145 150 155 160

Arg Met Ser Asp Asp Pro Glu Gln Ser Leu Gln Val Glu Ala Ser Pro
 165 170 175

Gly Ser Gly Arg Pro Ala Pro Ala Ala Gln Thr Pro Leu Leu Gly Arg
 180 185 190

Phe Leu Gly Val Gly Ala Pro Ser Pro Ala Ile Ser Leu Arg Asn Phe
 195 200 205

Gly Arg Val Arg Gly Thr Pro Arg Pro Pro His Leu Leu Arg Phe Arg
 210 215 220

Ala Glu Glu Gly Gly Asp Pro Glu Ala Ala Ala Arg Ile Glu Glu Glu
 225 230 235 240

Ser Ala Glu Ser Gly Asp Glu Ala Leu Glu Pro
 245 250

<210> 2256

<211> 125

<212> PRT

<213> Homo sapiens

<400> 2256

Met Arg Pro Gly Lys Lys Val Leu Val Met Gly Ile Val Asp Leu Asn
 1 5 10 15

Pro Glu Ser Phe Ala Ile Ser Leu Thr Cys Gly Asp Ser Glu Asp Pro
 20 25 30

Pro Ala Asp Val Ala Ile Glu Leu Lys Ala Val Phe Thr Asp Arg Gln
 35 40 45

Leu Leu Arg Asn Ser Cys Ile Ser Gly Glu Arg Gly Glu Glu Gln Ser
 50 55 60

Ala Ile Pro Tyr Phe Pro Phe Ile Pro Asp Gln Pro Phe Arg Val Glu
 65 70 75 80

Ile Leu Cys Glu His Pro Arg Phe Arg Val Phe Val Asp Gly His Gln
 85 90 95

Leu Phe Asp Phe Tyr His Arg Ile Gln Thr Leu Ser Ala Ile Asp Thr
 100 105 110

Ile Lys Ile Asn Gly Asp Leu Gln Ile Thr Lys Leu Gly
 115 120 125

<210> 2257

<211> 170

<212> PRT

<213> Homo sapiens

<400> 2257

Met Ile Ser Ile His Asn Glu Glu Glu Asn Ala Phe Ile Leu Asp Thr
 1 5 10 15

Leu Lys Lys Gln Trp Lys Gly Pro Asp Asp Ile Leu Leu Gly Met Phe
 20 25 30

Tyr Asp Thr Asp Asp Ala Ser Phe Lys Trp Phe Asp Asn Ser Asn Met
 35 40 45

Thr Phe Asp Lys Trp Thr Asp Gln Asp Asp Asp Glu Asp Leu Val Asp
 50 55 60

Thr Cys Ala Phe Leu His Ile Lys Thr Gly Glu Trp Lys Lys Gly Asn
 65 70 75 80

Cys Glu Val Ser Ser Val Glu Gly Thr Leu Cys Lys Thr Ala Ile Pro
 85 90 95

Tyr Lys Arg Lys Tyr Leu Ser Asp Asn His Ile Leu Ile Ser Ala Leu
 100 105 110

Val Ile Ala Ser Thr Val Ile Leu Thr Val Leu Gly Ala Ile Ile Trp
 115 120 125

Phe Leu Tyr Lys Lys His Ser Asp Ser Arg Phe Thr Thr Val Phe Ser
 130 135 140

Thr Ala Pro Gln Ser Pro Tyr Asn Glu Asp Cys Val Leu Val Val Gly
 145 150 155 160

Glu Glu Asn Glu Tyr Pro Val Gln Phe Asp
 165 170

<210> 2258

<211> 595

<212> PRT

<213> Homo sapiens

<400> 2258

Met Leu Leu Leu Leu Leu Leu Pro Pro Leu Leu Cys Gly Arg Val
 1 5 10 15

Gly Ala Lys Glu Gln Lys Asp Tyr Leu Leu Thr Met Gln Lys Ser Val
 20 25 30

Thr Val Gln Glu Gly Leu Cys Val Ser Val Leu Cys Ser Phe Ser Tyr
 35 40 45

Pro Gln Asn Gly Trp Thr Ala Ser Asp Pro Val His Gly Tyr Trp Phe
 50 55 60

Arg Ala Gly Asp His Val Ser Arg Asn Ile Pro Val Ala Thr Asn Asn
 65 70 75 80

Pro Ala Arg Ala Val Gln Glu Glu Thr Arg Asp Arg Phe His Leu Leu
 85 90 95

Gly Asp Pro Gln Asn Lys Asp Cys Thr Leu Ser Ile Arg Asp Thr Arg
 100 105 110

Glu Ser Asp Ala Gly Thr Tyr Val Phe Cys Val Glu Arg Gly Asn Met
 115 120 125

Lys Trp Asn Tyr Lys Tyr Asp Gln Leu Ser Val Asn Val Thr Ala Ser
 130 135 140

Gln Asp Leu Leu Ser Arg Tyr Arg Leu Glu Val Pro Glu Ser Val Thr
 145 150 155 160

Val Gln Glu Gly Leu Cys Val Ser Val Pro Cys Ser Val Leu Tyr Pro
 165 170 175

His Tyr Asn Trp Thr Ala Ser Ser Pro Val Tyr Gly Ser Trp Phe Lys
 180 185 190

Glu Gly Ala Asp Ile Pro Trp Asp Ile Pro Val Ala Thr Asn Thr Pro
 195 200 205

Ser Gly Lys Val Gln Glu Asp Thr His Gly Arg Phe Leu Leu Leu Gly
 210 215 220

Asp Pro Gln Thr Asn Asn Cys Ser Leu Ser Ile Arg Asp Ala Arg Lys
 225 230 235 240
 Gly Asp Ser Gly Lys Tyr Tyr Phe Gln Val Glu Arg Gly Ser Arg Lys
 245 250 255
 Trp Asn Tyr Ile Tyr Asp Lys Leu Ser Val His Val Thr Ala Leu Thr
 260 265 270
 His Met Pro Thr Phe Ser Ile Pro Gly Thr Leu Glu Ser Gly His Pro
 275 280 285
 Arg Asn Leu Thr Cys Ser Val Pro Trp Ala Cys Glu Gln Gly Thr Pro
 290 295 300
 Pro Thr Ile Thr Trp Met Gly Ala Ser Val Ser Ser Leu Asp Pro Thr
 305 310 315 320
 Ile Thr Arg Ser Ser Met Leu Ser Leu Ile Pro Gln Pro Gln Asp His
 325 330 335
 Gly Thr Ser Leu Thr Cys Gln Val Thr Leu Pro Gly Ala Gly Val Thr
 340 345 350
 Met Thr Arg Ala Val Arg Leu Asn Ile Ser Tyr Pro Pro Gln Asn Leu
 355 360 365
 Thr Met Thr Val Phe Gln Gly Asp Gly Thr Ala Ser Thr Thr Leu Arg
 370 375 380
 Asn Gly Ser Ala Leu Ser Val Leu Glu Gly Gln Ser Leu His Leu Val
 385 390 395 400
 Cys Ala Val Asp Ser Asn Pro Pro Ala Arg Leu Ser Trp Thr Trp Gly
 405 410 415
 Ser Leu Thr Leu Ser Pro Ser Gln Ser Ser Asn Leu Gly Val Leu Glu
 420 425 430
 Leu Pro Arg Val His Val Lys Asp Glu Gly Glu Phe Thr Cys Arg Ala
 435 440 445
 Gln Asn Pro Leu Gly Ser Gln His Ile Ser Leu Ser Leu Ser Leu Gln
 450 455 460
 Asn Glu Tyr Thr Gly Lys Met Arg Pro Ile Ser Gly Val Thr Leu Gly
 465 470 475 480
 Ala Phe Gly Gly Ala Gly Ala Thr Ala Leu Val Phe Leu Tyr Phe Cys
 485 490 495
 Ile Ile Phe Val Val Val Arg Ser Cys Arg Lys Lys Ser Ala Arg Pro
 500 505 510
 Ala Val Gly Val Gly Asp Thr Gly Met Glu Asp Ala Asn Ala Val Arg
 515 520 525
 Gly Ser Ala Ser Gln Gly Pro Leu Ile Glu Ser Pro Ala Asp Asp Ser
 530 535 540

Pro Pro His His Ala Pro Pro Ala Leu Ala Thr Pro Ser Pro Glu Glu
545 550 555 560

Gly Glu Ile Gln Tyr Ala Ser Leu Ser Phe His Lys Ala Arg Pro Gln
565 570 575

Tyr Pro Gln Glu Gln Glu Ala Ile Gly Tyr Glu Tyr Ser Glu Ile Asn
580 585 590

Ile Pro Lys
595

<210> 2259

<211> 274

<212> PRT

<213> Homo sapiens

<400> 2259

Met Ser Ser Asn Gly Ile Pro Glu Cys Tyr Ala Glu Glu Asp Glu Phe
1 5 10 15

Ser Gly Leu Glu Thr Asp Thr Ala Val Pro Thr Glu Glu Ala Tyr Val
20 25 30

Ile Tyr Asp Glu Asp Tyr Glu Phe Glu Thr Ser Arg Pro Pro Thr Thr
35 40 45

Thr Glu Pro Ser Thr Thr Ala Thr Thr Pro Arg Val Ile Pro Glu Glu
50 55 60

Gly Ala Ile Ser Ser Phe Pro Glu Glu Glu Phe Asp Leu Ala Gly Arg
65 70 75 80

Lys Arg Phe Val Ala Pro Tyr Val Thr Tyr Leu Asn Lys Asp Pro Ser
85 90 95

Ala Pro Cys Ser Leu Thr Asp Ala Leu Asp His Phe Gln Val Asp Ser
100 105 110

Leu Asp Glu Ile Ile Pro Asn Asp Leu Lys Lys Ser Asp Leu Pro Pro
115 120 125

Gln His Ala Pro Arg Asn Ile Thr Val Val Ala Val Glu Gly Cys His
130 135 140

Ser Phe Val Ile Val Asp Trp Asp Lys Ala Thr Pro Gly Asp Val Val
145 150 155 160

Thr Gly Tyr Leu Val Tyr Ser Ala Ser Tyr Glu Asp Phe Ile Arg Asn
165 170 175

Lys Trp Ser Thr Gln Ala Ser Ser Val Thr His Leu Pro Ile Glu Asn
180 185 190

Leu Lys Pro Asn Thr Arg Tyr Tyr Phe Lys Val Gln Ala Gln Asn Pro
195 200 205

His Gly Tyr Gly Pro Ile Ser Pro Ser Val Ser Phe Val Thr Glu Ser

1520

210	215	220
Asp Asn Pro Leu Leu Val Val Arg Pro Pro Gly Gly Glu Pro Ile Trp		
225	230	235 240
Ile Pro Phe Ala Phe Lys His Asp Pro Ser Tyr Thr Asp Cys His Gly		
	245	250 255
Arg Gln Tyr Val Lys Arg Thr Leu Val Ser Lys Val Arg Gly Ser Trp		
	260	265 270
Ser Leu		

<210> 2260

<211> 468

<212> PRT

<213> Homo sapiens

<400> 2260

Met Pro Ala Leu His Thr Leu Asn Leu Asp His Asn Leu Ile Asp Ala		
1	5	10 15
Leu Pro Pro Gly Ala Phe Ala Gln Leu Gly Gln Leu Ser Arg Leu Asp		
	20	25 30
Leu Thr Ser Asn Arg Leu Ala Thr Leu Ala Pro Asp Pro Leu Phe Ser		
	35	40 45
Arg Gly Arg Asp Ala Glu Ala Ser Pro Ala Pro Leu Val Leu Ser Phe		
	50	55 60
Ser Gly Asn Pro Leu His Cys Asn Cys Glu Leu Leu Trp Leu Arg Arg		
	65	70 75 80
Leu Ala Arg Pro Asp Asp Leu Glu Thr Cys Ala Ser Pro Pro Gly Leu		
	85	90 95
Ala Gly Arg Tyr Phe Trp Ala Val Pro Glu Gly Glu Phe Ser Cys Glu		
	100	105 110
Pro Pro Leu Ile Ala Arg His Thr Gln Arg Leu Trp Val Leu Glu Gly		
	115	120 125
Gln Arg Ala Thr Leu Arg Cys Arg Ala Leu Gly Asp Pro Ala Pro Thr		
	130	135 140
Met His Trp Val Gly Pro Asp Asp Arg Leu Val Gly Asn Ser Ser Arg		
	145	150 155 160
Ala Arg Ala Phe Pro Asn Gly Thr Leu Glu Ile Gly Ala Thr Gly Ala		
	165	170 175
Gly Asp Ala Gly Gly Tyr Thr Cys Ile Ala Thr Asn Pro Ala Gly Glu		
	180	185 190
Ala Thr Ala Arg Val Glu Leu Arg Val Leu Ala Leu Pro His Gly Gly		
	195	200 205

1521.

Asn Ser Ser Ala Glu Gly Gly Arg Pro Gly Pro Ser Asp Ile Ala Ala
 210 215 220
 Ser Ala Arg Thr Ala Ala Glu Gly Glu Gly Thr Leu Glu Ser Glu Pro
 225 230 235 240
 Ala Val Gln Val Thr Glu Val Thr Ala Thr Ser Gly Leu Val Ser Trp
 245 250 255
 Gly Pro Gly Arg Pro Ala Asp Pro Val Trp Met Phe Gln Ile Gln Tyr
 260 265 270
 Asn Ser Ser Glu Asp Glu Thr Leu Ile Tyr Arg Ile Val Pro Ala Ser
 275 280 285
 Ser His His Phe Leu Leu Lys His Leu Val Pro Gly Ala Asp Tyr Asp
 290 295 300
 Leu Cys Leu Leu Ala Leu Ser Pro Ala Ala Gly Pro Ser Asp Leu Thr
 305 310 315 320
 Ala Thr Arg Leu Leu Gly Cys Ala His Phe Ser Thr Leu Pro Ala Ser
 325 330 335
 Pro Leu Cys His Ala Leu Gln Ala His Val Leu Gly Gly Thr Leu Thr
 340 345 350
 Val Ala Val Gly Gly Val Leu Val Ala Ala Leu Leu Val Phe Thr Val
 355 360 365
 Ala Leu Leu Val Arg Gly Arg Gly Ala Gly Asn Gly Arg Leu Pro Leu
 370 375 380
 Lys Leu Ser His Val Gln Ser Gln Thr Asn Gly Gly Pro Ser Pro Thr
 385 390 395 400
 Pro Lys Ala His Pro Pro Arg Ser Pro Pro Pro Arg Pro Gln Arg Ser
 405 410 415
 Cys Ser Leu Asp Leu Gly Asp Ala Gly Cys Tyr Gly Tyr Ala Arg Arg
 420 425 430
 Leu Gly Gly Ala Trp Ala Arg Arg Ser His Ser Val His Gly Gly Leu
 435 440 445
 Leu Gly Ala Gly Cys Arg Gly Val Gly Gly Ser Ala Glu Arg Leu Glu
 450 455 460
 Glu Ser Val Val
 465

<210> 2261

<211> 86

<212> PRT

<213> Homo sapiens

<400> 2261

Met Asn Arg Gly Asp Phe Leu Leu Ser Val Asn Gly Ala Ser Leu Ala
 1 5 10 15
 Gly Leu Ala His Gly Asn Val Leu Lys Val Leu His Gln Ala Gln Leu
 20 25 30
 His Lys Asp Ala Leu Val Val Ile Lys Lys Gly Met Asp Gln Pro Arg
 35 40 45
 Pro Ser Ala Arg Gln Glu Pro Pro Thr Ala Asn Gly Lys Gly Leu Leu
 50 55 60
 Ser Arg Lys Thr Ile Pro Leu Glu Pro Gly Ile Gly Lys Met Ile Ile
 65 70 75 80
 Ser Thr Thr Ser Arg Leu
 85

<210> 2262
 <211> 105
 <212> PRT
 <213> Homo sapiens

<400> 2262
 Met Lys Gly Ser Arg Ala Leu Leu Leu Val Ala Leu Thr Leu Phe Cys
 1 5 10 15
 Ile Cys Arg Met Ala Thr Gly Glu Asp Asn Asp Glu Phe Phe Met Asp
 20 25 30
 Phe Leu Gln Thr Leu Leu Val Gly Thr Pro Glu Glu Leu Tyr Glu Gly
 35 40 45
 Thr Leu Gly Lys Tyr Asn Val Asn Glu Asp Ala Lys Ala Ala Met Thr
 50 55 60
 Glu Leu Lys Ser Cys Ile Asp Gly Leu Gln Pro Met His Lys Ala Glu
 65 70 75 80
 Leu Val Lys Leu Leu Val Gln Val Leu Gly Ser Gln Asp Gly Ala Gly
 85 90 95
 Thr Asp Tyr Lys Asp Asp Asp Lys
 100 105

<210> 2263
 <211> 167
 <212> PRT
 <213> Homo sapiens

<400> 2263
 Met Ala Ala Ser Val Cys Ser Gly Leu Leu Gly Pro Arg Val Leu Ser
 1 5 10 15
 Trp Ser Arg Glu Leu Pro Cys Ala Trp Arg Ala Leu His Thr Ser Pro
 20 25 30

[illegible]

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<210> 2264
<211> 203
<212> PRT
<213> Homo sapiens
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<400> 2264
Met- Ala  Arg  Pro  Arg  Pro  Arg  Glu  Tyr  Lys  Ala  Gly  Asp  Leu  Val  Phe
   1          5          10          15

Ala  Lys  Met  Lys  Gly  Tyr  Pro  His  Trp  Pro  Ala  Arg  Ile  Asp  Glu  Leu
          20          25          30

Pro  Glu  Gly  Ala  Val  Lys  Pro  Pro  Ala  Asn  Lys  Tyr  Pro  Ile  Phe  Phe
      35          40          45

Phe  Gly  Thr  His  Glu  Thr  Ala  Phe  Leu  Gly  Pro  Lys  Asp  Leu  Phe  Pro
   50          55          60

Tyr  Lys  Glu  Tyr  Lys  Asp  Lys  Phe  Gly  Lys  Ser  Asn  Lys  Arg  Lys  Gly
   65          70          75          80

Phe  Asn  Glu  Gly  Leu  Trp  Glu  Ile  Glu  Asn  Asn  Pro  Gly  Val  Lys  Phe
          85          90          95

Thr  Gly  Tyr  Gln  Ala  Ile  Gln  Gln  Gln  Ser  Ser  Ser  Glu  Thr  Glu  Gly
      100          105          110

Glu  Gly  Gly  Asn  Thr  Ala  Asp  Ala  Ser  Ser  Glu  Glu  Glu  Gly  Asp  Arg
   115          120          125

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Val Glu Glu Asp Gly Lys Gly Lys Arg Lys Asn Glu Lys Ala Gly Ser
 130 135 140
 Lys Arg Lys Lys Ser Tyr Thr Ser Lys Lys Ser Ser Lys Gln Ser Arg
 145 150 155 160
 Lys Ser Pro Gly Asp Glu Asp Asp Lys Asp Cys Lys Glu Glu Glu Asn
 165 170 175
 Lys Ser Ser Ser Glu Gly Gly Asp Ala Gly Asn Asp Thr Arg Asn Thr
 180 185 190
 Thr Ser Asp Leu Gln Lys Thr Ser Glu Gly Thr
 195 200

<210> 2265

<211> 253

<212> PRT

<213> Homo sapiens

<400> 2265

Met Arg Ser Gly Lys Met Ala Pro Lys Pro Gln Ser Arg Cys Thr Ser
 1 5 10 15
 Thr Arg Ser Ala Gly Glu Ala Pro Ser Glu Asn Gln Ser Pro Ser Lys
 20 25 30
 Gly Pro Glu Glu Ala Ser Ser Glu Val Gln Asp Thr Asn Glu Val His
 35 40 45
 Val Pro Gly Asp Gln Asp Glu Pro Gln Thr Leu Gly Lys Lys Gly Ser
 50 55 60
 Lys Asn Asn Ile Ser Val Tyr Met Thr Leu Asn Gln Lys Lys Ser Asp
 65 70 75 80
 Ser Ser Ser Ala Ser Val Cys Ser Ile Asp Ser Thr Asp Asp Leu Lys
 85 90 95
 Ser Ser Asn Ser Glu Cys Ser Ser Ser Glu Ser Phe Asp Phe Pro Pro
 100 105 110
 Gly Ser Met His Ala Pro Ser Thr Ser Ser Thr Ser Ser Ser Ser Lys
 115 120 125
 Glu Glu Lys Lys Leu Ser Asn Ser Leu Lys Met Lys Val Phe Ser Lys
 130 135 140
 Asn Val Ser Lys Cys Val Thr Pro Asp Gly Arg Thr Ile Cys Val Gly
 145 150 155 160
 Asp Ile Val Trp Ala Lys Ile Tyr Gly Phe Pro Trp Trp Pro Ala Arg
 165 170 175
 Ile Leu Thr Ile Thr Val Ser Arg Lys Asp Asn Gly Leu Leu Val Arg
 180 185 190
 Gln Glu Ala Arg Ile Ser Trp Phe Gly Ser Pro Thr Thr Ser Phe Leu
 1525

195	200	205
Ala Leu Ser Gln Leu Ser	Pro Phe Leu Glu Asn Phe Gln Ser Arg Phe	
210	215	220
Asn Lys Lys Arg Lys Gly Leu Tyr Arg Lys Ala Ile Thr Glu Ala Ala		
225	230	235 240
Lys Ala Ala Lys Gln Leu Thr Pro Glu Val Arg Ala Cys		
245	250	

<210> 2266
 <211> 314
 <212> PRT
 <213> Homo sapiens

<400> 2266
 Met Pro His Ala Phe Lys Pro Gly Asp Leu Val Phe Ala Lys Met Lys
 1 5 10 15
 Gly Tyr Pro His Trp Pro Ala Arg Ile Asp Asp Ile Ala Asp Gly Ala
 20 25 30
 Val Lys Pro Pro Pro Asn Lys Tyr Pro Ile Phe Phe Phe Gly Thr His
 35 40 45
 Glu Thr Ala Phe Leu Gly Pro Lys Asp Leu Phe Pro Tyr Asp Lys Cys
 50 55 60
 Lys Asp Lys Tyr Gly Lys Pro Asn Lys Arg Lys Gly Phe Asn Glu Gly
 65 70 75 80
 Leu Trp Glu Ile Gln Asn Asn Pro His Ala Ser Tyr Ser Ala Pro Pro
 85 90 95
 Pro Val Ser Ser Ser Asp Ser Glu Ala Pro Glu Ala Asn Pro Ala Asp
 100 105 110
 Gly Ser Asp Ala Asp Glu Asp Asp Glu Asp Arg Gly Val Met Ala Val
 115 120 125
 Thr Ala Val Thr Ala Thr Ala Ala Ser Asp Arg Met Glu Ser Asp Ser
 130 135 140
 Asp Ser Asp Lys Ser Ser Asp Asn Ser Gly Leu Lys Arg Lys Thr Pro
 145 150 155 160
 Ala Leu Lys Met Ser Val Ser Lys Arg Ala Arg Lys Ala Ser Ser Asp
 165 170 175
 Leu Asp Gln Ala Ser Val Ser Pro Ser Glu Glu Glu Asn Ser Glu Ser
 180 185 190
 Ser Ser Glu Ser Glu Lys Thr Ser Asp Gln Asp Phe Thr Pro Glu Lys
 195 200 205
 Lys Ala Ala Val Arg Ala Pro Arg Arg Gly Pro Leu Gly Gly Arg Lys
 210 215 220

Lys Lys Lys Ala Pro Ser Ala Ser Asp Ser Asp Ser Lys Ala Asp Ser
 225 230 235 240
 Asp Gly Ala Lys Pro Glu Pro Val Ala Met Ala Arg Ser Ala Ser Ser
 245 250 255
 Ser Ser Ser Ser Ser Ser Ser Asp Ser Asp Val Ser Val Lys Lys
 260 265 270
 Pro Pro Arg Gly Arg Lys Pro Thr Glu Lys Pro Leu Pro Lys Pro Arg
 275 280 285
 Gly Arg Lys Pro Lys Pro Glu Arg Pro Pro Ser Ser Ser Ser Asp
 290 295 300
 Ser Asp Ser Asp Glu Val Asp Arg Ile Thr
 305 310

<210> 2267
 <211> 281
 <212> PRT
 <213> Homo sapiens

<400> 2267
 Met Gly Ser Arg Gly Gln Gly Leu Leu Leu Ala Tyr Cys Leu Leu Leu
 1 5 10 15
 Ala Phe Ala Ser Gly Leu Val Leu Ser Arg Val Pro His Val Gln Gly
 20 25 30
 Glu Gln Gln Glu Trp Glu Gly Thr Glu Glu Leu Pro Ser Pro Pro Asp
 35 40 45
 His Ala Glu Arg Ala Glu Glu Gln His Glu Lys Tyr Arg Pro Ser Gln
 50 55 60
 Asp Gln Gly Leu Pro Ala Ser Arg Cys Leu Arg Cys Cys Asp Pro Gly
 65 70 75 80
 Thr Ser Met Tyr Pro Ala Thr Ala Val Pro Gln Ile Asn Ile Thr Ile
 85 90 95
 Leu Lys Gly Glu Lys Gly Asp Arg Gly Asp Arg Gly Leu Gln Gly Lys
 100 105 110
 Tyr Gly Lys Thr Gly Ser Ala Gly Ala Arg Gly His Thr Gly Pro Lys
 115 120 125
 Gly Gln Lys Gly Ser Met Gly Ala Pro Gly Glu Arg Cys Lys Ser His
 130 135 140
 Tyr Ala Ala Phe Ser Val Gly Arg Lys Lys Pro Met His Ser Asn His
 145 150 155 160
 Tyr Tyr Gln Thr Val Ile Phe Asp Thr Glu Phe Val Asn Leu Tyr Asp
 165 170 175

His Phe Asn Met Phe Thr Gly Lys Phe Tyr Cys Tyr Val Pro Gly Leu
180 185 190

Tyr Phe Phe Ser Leu Asn Val His Thr Trp Asn Gln Lys Glu Thr Tyr
195 200 205

Leu His Ile Met Lys Asn Glu Glu Glu Val Ala Ile Leu Phe Ala Gln
210 215 220

Val Gly Asp Arg Ser Ile Met Gln Ser Gln Ser Leu Met Leu Glu Leu
225 230 235 240

Arg Glu Gln Asp Gln Val Trp Val Arg Leu Tyr Lys Gly Glu Arg Glu
245 250 255

Asn Ala Ile Phe Ser Glu Glu Leu Asp Thr Tyr Ile Thr Phe Ser Gly
260 265 270

Tyr Leu Val Lys His Ala Thr Glu Pro
275 280

INDICATIONS RELATING TO A DEPOSITED MICROORGANISM OR OTHER BIOLOGICAL MATERIAL

(PCT Rule 13bis)

A. The indications made below relate to the deposited microorganism or other biological material referred to in the description on page 243, line 24.

B. IDENTIFICATION OF DEPOSIT

Further deposits are identified on an additional sheet ☒

Name of depositary institution: American Type Culture Collection

Address of depositary institution (including postal code and country)

10801 University Boulevard
Manassas, Virginia 20110-2209
United States of America

Date of deposit

11 April 2001

Accession Number

PTA-3276

C. ADDITIONAL INDICATIONS (leave blank if not applicable)

This information is continued on an additional sheet ☐

D. DESIGNATED STATES FOR WHICH INDICATIONS ARE MADE (if the indications are not for all designated States)

Europe

In respect of those designations in which a European Patent is sought a sample of the deposited microorganism will be made available until the publication of the mention of the grant of the European patent or until the date on which the application has been refused or withdrawn or is deemed to be withdrawn, only by the issue of such a sample to an expert nominated by the person requesting the sample (Rule 28(4) EPC)

Continued on additional sheets

E. SEPARATE FURNISHING OF INDICATIONS (leave blank if not applicable)

The indications listed below will be submitted to the International Bureau later (specify the general nature of the indications e.g. "Accession Number of Deposit")

	For receiving Office use only			For International Bureau use only	
<input type="checkbox"/> This sheet was received with the international application		<input checked="" type="checkbox"/> This sheet was received by the International Bureau on <div style="text-align: center; font-weight: bold;">15 MAY 2001</div> <div style="text-align: right; font-weight: bold;">(15.05.01)</div>			
Authorized officer:		Authorized officer <i>P. Becard</i>			

ATCC Deposit No.: PTA-3276

CANADA

The applicant requests that, until either a Canadian patent has been issued on the basis of an application or the application has been refused, or is abandoned and no longer subject to reinstatement, or is withdrawn, the Commissioner of Patents only authorizes the furnishing of a sample of the deposited biological material referred to in the application to an independent expert nominated by the Commissioner, the applicant must, by a written statement, inform the International Bureau accordingly before completion of technical preparations for publication of the international application.

NORWAY

The applicant hereby requests that the application has been laid open to public inspection (by the Norwegian Patent Office), or has been finally decided upon by the Norwegian Patent Office without having been laid open inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the Norwegian Patent Office not later than at the time when the application is made available to the public under Sections 22 and 33(3) of the Norwegian Patents Act. If such a request has been filed by the applicant, any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on the list of recognized experts drawn up by the Norwegian Patent Office or any person approved by the applicant in the individual case.

AUSTRALIA

The applicant hereby gives notice that the furnishing of a sample of a microorganism shall only be effected prior to the grant of a patent, or prior to the lapsing, refusal or withdrawal of the application, to a person who is a skilled addressee without an interest in the invention (Regulation 3.25(3) of the Australian Patents Regulations).

FINLAND

The applicant hereby requests that, until the application has been laid open to public inspection (by the National Board of Patents and Regulations), or has been finally decided upon by the National Board of Patents and Registration without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art.

UNITED KINGDOM

The applicant hereby requests that the furnishing of a sample of a microorganism shall only be made available to an expert. The request to this effect must be filed by the applicant with the International Bureau before the completion of the technical preparations for the international publication of the application.

ATCC Deposit No.: PTA-3276

DENMARK

The applicant hereby requests that, until the application has been laid open to public inspection (by the Danish Patent Office), or has been finally decided upon by the Danish Patent office without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the Danish Patent Office not later than at the time when the application is made available to the public under Sections 22 and 33(3) of the Danish Patents Act. If such a request has been filed by the applicant, any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on a list of recognized experts drawn up by the Danish Patent Office or any person by the applicant in the individual case.

SWEDEN

The applicant hereby requests that, until the application has been laid open to public inspection (by the Swedish Patent Office), or has been finally decided upon by the Swedish Patent Office without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the International Bureau before the expiration of 16 months from the priority date (preferably on the Form PCT/RO/134 reproduced in annex Z of Volume I of the PCT Applicant's Guide). If such a request has been filed by the applicant any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on a list of recognized experts drawn up by the Swedish Patent Office or any person approved by a applicant in the individual case.

NETHERLANDS

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INDICATIONS RELATING TO A DEPOSITED MICROORGANISM OR OTHER BIOLOGICAL MATERIAL

(PCT Rule 13bis)

A. The indications made below relate to the deposited microorganism or other biological material referred to in the description on page 243, line 24.

B. IDENTIFICATION OF DEPOSIT

Further deposits are identified on an additional sheet ☒

Name of depositary institution: American Type Culture Collection

Address of depositary institution (including postal code and country)
10801 University Boulevard
Manassas, Virginia 20110-2209
United States of America

Date of deposit
11 April 2001

Accession Number
PTA-3277

C. ADDITIONAL INDICATIONS (leave blank if not applicable)

This information is continued on an additional sheet ☐

D. DESIGNATED STATES FOR WHICH INDICATIONS ARE MADE (if the indications are not for all designated States)

Europe

In respect of those designations in which a European Patent is sought a sample of the deposited microorganism will be made available until the publication of the mention of the grant of the European patent or until the date on which the application has been refused or withdrawn or is deemed to be withdrawn, only by the issue of such a sample to an expert nominated by the person requesting the sample (Rule 28(4) EPC)

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E. SEPARATE FURNISHING OF INDICATIONS (leave blank if not applicable)

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<input type="checkbox"/> This sheet was received with the international application		<input checked="" type="checkbox"/> This sheet was received by the International Bureau on <div style="text-align: center;">15 MAY 2001 15.05.01</div>			
Authorized officer		Authorized officer			

ATCC Deposit No.: PTA-3277

CANADA

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NORWAY

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AUSTRALIA

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FINLAND

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Date of deposit

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Accession Number

PTA-3278

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Europe

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ATCC Deposit No.: PTA-3278

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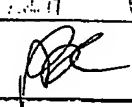
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Authorized officer		Authorized officer 	

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US01/11988

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : C07H 21/04

US CL : 536/23.4, 23.5

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 536/23.4, 23.5

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
WEST, DIALOG**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	WO 97/34997 A1 (HUMAN GENOME SCIENCES, INC.) 25 September 1997, see the whole document.	1-9, 15-19
Y	WO 97/24445 A1 (DELTA BIOTECHNOLOGY LIMITED) 10 July 1997, see the whole document.	1-9, 15-19
Y	EP 0 322 094 A1 (DELTA BIOTECHNOLOGY LIMITED) 28 June 1989, see Figure 1.	1-9, 15-19

☐ Further documents are listed in the continuation of Box C.☐ See patent family annex.

Special categories of cited documents:	
* "A" document defining the general state of the art which is not considered to be of particular relevance	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"E" earlier application or patent published on or after the international filing date	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search

Date of mailing of the international search report

05 SEP 2001

Name and mailing address of the ISA/US

Commissioner of Patents and Trademarks
Box PCT
Washington, D.C. 20231

Facsimile No. (703)305-3230

Authorized officer

Teresa Strzelecka

Telephone No. (703) 308-0196

INTERNATIONAL SEARCH REPORT

International application No. .

PCT/US01/11988

Box I Observations where certain claims were found unsearchable (Continuation of Item 1 of first sheet)

This international report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claim Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claim Nos.:
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
3. ☒ Claim Nos.: 10-14, 20-32, 34-36
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of Item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:
Please See Continuation Sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.: 1-9, 15-19, protein X HETFO52

Remark on Protest

☐
☐

The additional search fees were accompanied by the applicant's protest.

No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US01/11988

BOX II. OBSERVATIONS WHERE UNITY OF INVENTION IS LACKING:

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1. In order for all inventions to be examined, the appropriate additional examination fees must be paid.

1. Groups 1-6918, claims 1-9 and 15-19 (all in part), drawn to an albumin fusion protein comprising a Therapeutic protein:X and albumin.

If Group 1 is elected, this correlates to protein identified by X=HETFOS2 with a preferred indication Y: neural/sensory, reproductive.

If Group 2 is elected, this correlates to protein identified by X=HETEZ10 with a preferred indication Y: cancer.

5. Groups 6919-13836, claim 33 (in part), drawn to a method of extending the shelf life of a Therapeutic protein:X.

If Group 6919 is elected, this correlates to protein identified by X=HETFOS2 with a preferred indication Y: neural/sensory, reproductive.

If Group 6920 is elected, this correlates to protein identified by X=HETEZ10 with a preferred indication Y: cancer.

The inventions listed as Groups 1-13836 do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons:

The special technical feature is an albumin fusion protein. Balance et al. (WO 90/13653) teach albumin fusion proteins comprising human fibronectin, CD4, platelet derived growth factor, transforming growth factor beta, human von Willebrand factor or alpha-1-antitrypsin.

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